

Curriculum Vitae

Kenneth J. Anusavice

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Personal Information

Present Position Distinguished Professor
Office Address Department of Operative Dentistry
Director, Center for Dental Biomaterials
University of Florida
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Marital Status

Wife

Children

Dental License

Georgia

Teaching License

Florida

Education

D.M.D. Medical College of Georgia
Ph.D. Materials Science and Engineering, University of Florida
B.S. Mechanical Engineering, Worcester Polytechnic Institute

Employment

1997-2010 Associate Dean for Research, College of Dentistry, University of Florida, Gainesville, Florida
1983-present Doctoral Research Professor, University of Florida, Gainesville, Florida
1983-present Adjunct Research Professor, Department of Materials Science and Engineering, University of Florida, Gainesville, Florida

1983-2009	Professor and Chair, Department of Dental Biomaterials, College of Dentistry, University of Florida, Gainesville, Florida
1982-1983	Staff Dentist, Student Dental Clinic, Medical College of Georgia, Augusta, Georgia
1981-1983	Dentist, Dental Clinic for Indigent Patient Care, Augusta, Georgia
1980-1983	Associate Professor and Vice Coordinator. Dental Materials Division, Department of Restorative Dentistry, Medical College of Georgia, Augusta, Georgia
1977-1983	Associate Professor, Division of Dental Materials, Department of Restorative Dentistry, Medical College of Georgia, Augusta, Georgia
1973-1977	Assistant Professor, Division of Dental Materials, Department of Restorative Dentistry, Medical College of Georgia, Augusta, Georgia
1972-1973	Technical Analyst, U.S. Atomic Energy Commission, Savannah River Plant, Aiken, South Carolina. Security level: Secret "Q" clearance
1970-1971	Metallurgical Engineer, U.S. Atomic Energy Commission, Savannah River Plant, Aiken, SC. Security level: Secret "Q" clearance
1963-1969	Graduate Research Assistant, Department of Metallurgical and Materials Engineering, University of Florida, Gainesville, Florida
1962-1963	Graduate Teaching Assistant, Department of Materials Engineering, Worcester Polytechnic Institute, Worcester, Massachusetts
1962	Design Engineer, Avco Corporation, Wilmington, Massachusetts
1961	Design Engineer, Wyman Gordon Company, North Grafton, Massachusetts

Honors and Awards

2008	Teacher of the Year (Basic Science), College of Dentistry, University of Florida
2006	Distinguished Lecturer Award, Greater New York Academy of Prosthodontics, December 1, 2006.
2005	NIH/NIDCR Special Emphasis Panel: Reviewer of P01 Grants on HIV/Aids, February 16-17, 2005
2005	NIH/NIDCR Special Emphasis Panel: Curriculum Grants, February 19, 2005
2005	NIH/NIDCR Dental and Craniofacial Sciences Special Emphasis Panel: Fluoride from Dentifrices and Rinses, April 7, 2005
2005	Member, SBIR/STTR Study Section, June 6, 2005.
2004	Distinguished Professor, University of Florida
2003	As President of the AADR, co-signed on May 6, 2003 with Dr. Richard Carmona, Surgeon General of the United States, the "Memorandum of Understanding with to Promote Healthy People 2010 Oral Health Objectives."
2003-2004	President, American Association for Dental Research (AADR)
2003	Keynote Speaker, Research Day, Indiana University School of Dentistry, April 23, 2003.
2003	Invited Speaker, NIH/NIDCR Symposium, Dental Informatics & Dental Research-Making the Connection, Bethesda, MD, June 12-13, 2003.
2000	Distinguished Lecturer Award, American College of Prosthodontics
1999-present	Chair, ISO Technical Committee TC106, Prosthodontic Materials, which consists of 15 Working Groups represented by scientists and dentists from 10 member countries and 11 observer countries. (http://www.iso.org/iso/en/stdsdevelopment/tc/tclist/TechnicalCommitteeDetailPage.TechnicalCommitteeDetail?COMMID=2934).
1998	The Buonocore Memorial Lecture: "Materials of the Future: Preservative or Restorative?," Annual Meeting of the Academy of Operative Dentistry, Chicago, IL.
1998	The 42nd Annual Birnberg Award, Columbia University, New York, NY, April 30, 1998.

1998	Member, American Dental Association Council on Scientific Affairs
1997-1999	Contributing author, Surgeon General's Report on Oral Health, September, 2000. This is the first report that has focused exclusively on oral, dental, and craniofacial health by the Surgeon General of the United States Public Health Service. The report was commissioned by the Secretary of Health and Human Services upon the recommendation of the Surgeon General, on April 9, 1997 (http://www2.nidcr.nih.gov/sgr/sgrweb/ack.htm#top)
1997-1999	Contributing author on Dental and Craniofacial Research Panel, Future of Dentistry, Today's Vision: Tomorrow's Reality, American Dental Association Health Policy Resources Center, Chicago, IL, 2001. (http://www.ada.org/prof/resources/topics/futuredent/future_preface.pdf)
1996	Professorial Excellence Program Award, University of Florida, Gainesville, Florida. This award is given for outstanding contributions in the areas of teaching, research, and service.
1996	Jerome M. and Dorothy Schweitzer Research Award of the Greater New York Academy of Prosthodontics
1996	Distinguished Scientist Award, Wilmer Souder Award for Research in Dental Materials, International Association of Dental Research
1994-2004	MERIT (Method to Extend Research in Time) Awards provide long-term support to investigators with impressive records of scientific achievement in research areas of special importance or promise. Less than 5 percent of NIH-funded investigators receive MERIT Awards.
1992-1997	Director, NIH-Supported National Research Service Award, Training Grant in Dental Biomaterials
1992	Leader of the United States MD156 committee delegation of the American Dental Association at the Annual Meeting of the International Organization for Standardization in Pforzheim, Germany, September 28, 1992 to October 4, 1992
1989-1994	Director, NIH-Supported Specialized Materials Science Research Center, University of Florida
1987	American College of Dentists
1980-1985	NIH Research Career Development Award
1972-1973	President, Savannah River Chapter, American Society of Metals

Professional Memberships

1990-	American Ceramic Society
1987-	American College of Dentists
1984-	Academy of Dental Materials
1983-	Florida Dental Association
1983-	American Dental Education Association (formerly, American Association of Dental Schools)
1979-1983	Georgia Eastern District Dental Society
1979-1983	Georgia Dental Association
1979-	American Dental Association
1974-	Dental Materials Group, American Association for Dental Research, International Association for Dental Research
1974-	American Association for Dental Research
1968-1973	American Institute of Mining and Metallurgical Engineers
1963-1973	American Society for Metals
1961-1962	American Society for Testing Materials
1960-1962	American Society of Mechanical Engineers

Service to the Profession

2008	ADA Standards Committee on Dental Products
2007-2009	Distinguished Scientist Award Committee, American Association for Dental Research
2007	Special Emphasis Panel, National Institute of Dental and Craniofacial Research, Teleconference, November 14, 2007.
2004	Moderator, "Achieving Healthy People 2010: Oral Cancer," March 10, 2004, 82 nd General Session of IADR/AADR/CADR, Honolulu Hawaii.
2004	Immediate Past President, AADR
2003-2004	President, American Association for Dental Research
2003-2005	Volunteer Dentist, Mobile Dental Clinic, Santa Fe River Baptist Association, Alachua, Florida, February 2004.
2003	External Review Board, "Early Caries Detection and Intervention," Indiana University School of Dentistry, May 20-21, 2003.
2001-2003	Vice President and President-Elect, American Association for Dental Research (AADR)
2000-2001	Member, NIDCR Evidence-Based Dentistry Panel, Diagnosis and Treatment of Caries, Future of Dentistry Report, American Dental Association, Contributor to Chapter 7, Dental and Craniofacial Research, pp. 116-155.
2000	Member, Future of Dentistry Panel, American Dental Association
1999	Chair, Site visit to National Institute of Standards and Technology for review of NIH Contract 98-42, "The Development of Advanced Mercury-Free Alloys", Gaithersburg, MD
1999-2000	Contributor, Surgeon General's Report on Oral Health
1998	Chair, Teleconference review of NIH grant proposal, R13 DE12804, "Bioceramics 10"
1998	Chair, Site visit to National Institute of Standards and Technology for review of NIH Interagency Agreement Y1-DE-0006-03, "Foundation for Advanced Dental and Medical Materials Through Molecular Design and Measurement Science", Gaithersburg, MD
1997-2001	Member, ADA Council on Scientific Affairs
1997-1999	Member, Nominating Committee, AADR
1997-1998	Vice President and President, Dental Materials Group, IADR
1997-1998	Committee Member, IADR Wilmer Souder Award in Dental Materials
1996-2000	Member, ADA Test Construction Committee, Prosthodontics Section
1996-1999	Member, IADR Hatton Awards Committee
1996-1998	Consultant, Informatics and Dental Terminology, Council on Scientific Affairs and Council on Dental Benefits, American Dental Association Chicago, Illinois
1996	Invited participant in the tri-service (Army, Air Force, Navy) program MHS 2020, Washington, DC, September 16-18, 1996. This program is designed to develop medical and dental health care strategies for the year 2020 during combat and peacetime situations.
1995-1996	AADR Nominating Committee
1995	Member, NIDR-NIST Committee for Enhancement of Technology Transfer between Government, Academia, and Industry, Las Vegas, Nevada, October 5, 1995
1995	Invited participant, Biomaterials and Medical Implant Science: Present and Future Perspectives, NIH Workshop, Bethesda, Maryland, October 16-17, 1995
1995-	Chairman, Subcommittee 2 of International Organization for Standardization, Technical Committee 106. Represents standards agencies from 22 countries
1994	Consultant, Kaiser Permanente, Permanente Dental Associates (HMO-based

- dental care system), Portland, Oregon
- 1994 Chairman, International Symposium on "Fracture and Failure Predictions for Dental Restorative Materials," Annual Meeting of Academy of Dental Materials, Hamilton, Bermuda, November 10-12, 1994
- 1993-1996 U.S. Expert to ISO (International Organization for Standardization) on dental terminology
- 1993 President, Xi Omicron Chapter, OKU, College of Dentistry
- 1993 Invited participant, Strategic Plan Workshop, National Center for Research Resources, National Institutes of Health, Washington, DC, September 28-30, 1993
- 1992-1994 Vice President, Academy of Dental Materials
- 1992-1993 Chairman, AADR William J. Gies Award Committee
- 1992 Vice President, Xi Omicron Chapter, OKU, College of Dentistry
- 1992 Consultant, Canadian Dental Association
- 1992 Chairman, Terminology, Subcommittee of ADA/ASC MD156
- 1992 AADR Symposium Organizer, Dental Materials
- 1992 AADR Symposium Coordinator, Dental Implants and Dental Adhesives
- 1991-1994 Representative, American Association of Dental Schools, Accredited Standards Committee MD156 for Dental Materials and Devices
- 1991-1992 Vice Chairman, Council on Dental Materials, Instruments, and Equipment, American Dental Association
- 1991-1992 Vice Chairman, Council on Dental Materials, Instruments, and Equipment, American Dental Association
- 1991 Vice-Chairman, ADA-ASC Specification Program
- 1991 Symposium Chairman, Academy of Dental Materials Annual Meeting, "Advancing Biomaterials Research through the Patent Process," Chicago, IL, February 15, 1991
- 1991 Participant, ADA Council Symposium, "Esthetic Restorative Materials," Chicago, IL, November 11-13, 1991
- 1991 Member, ADA/ANSC Delegation to ISO/TC106, Trieste, Italy, October 11-18, 1991
- 1991 Member, ADA/ANSC Delegation To ISO/TC106, Trieste, Italy, October 11-18, 1991
- 1990-1999 Chairman, Working Group 3, Accredited Standards Committee MD156, American Dental Association
- 1990-1992 Chairman, Long-Range Planning Committee, Academy of Dental Materials
- 1990- Member, Executive Committee, Academy of Dental Materials
- 1989-1992 Member, Council on Dental Materials, Instruments, and Equipment, American Dental Association
- 1989 Symposium Chairman, "Influence of Composition on Performance of Restorative Materials: A Fifty-year Perspective," Joint Symposium, AADR-AADS
- 1989 Symposium Chairman, "Funding Sources for Biomaterials Research," Joint Symposium, American Association of Dental Schools - Dental Materials Group - IADR, San Francisco, CA
- 1989 Panelist, "NIH-NIDR Long-Range Plan for the Nineties"
- 1989 Chairman, Engineering Foundation Conference, "Dental Biomaterials: Assessment of Performance Based on Engineering and Statistical Methods," August, 1989, Santa Barbara, CA
- 1988-1992 Member, Council on Dental Materials, Instruments, and Equipment, American Dental Association

1988-1989	President, Biomaterials Section, American Association of Dental Schools
1988-	Member, MD 156: Accredited Standards Committee, American Association of Dental Schools
1987-1988	Secretary, Biomaterials Section, American Association of Dental Schools
1987	Co-Chairman, Engineering Foundation Conference, "The Applications of Modern Engineering Methods to the Design of Dental Prostheses and Restorations," July, 1987, Henniker, NH
1987	Chairman, NIH-NIDR supported international symposium, "Criteria for Placement and Replacement of Dental Restorations"
1986-1992	Research Consultant, U.S. Army, Fort Bliss and Fort Gordon graduate programs
1986-1989	Member, Constitution Committee, IADR
1985-1989	Member, Oral Biology and Medicine Study Section, NIH
1985	Secretary, Section on Alloy Physical Property Characteristics for the Laboratory, Workshop on Biocompatibility of Metals Used in Dentistry, University of Michigan, June 23-29, 1985
1985	Consultant, Mercury Biocompatibility, American Dental Association
1983-1984	Member, Program Committee, Dental Materials Group, International Association for Dental Research
1983	Ad-Hoc reviewer of Small Business Program proposals, NIH
1982-1992	Member, Phosphate Bonded Investment Subcommittee, American National Standards Committee, Specification No. 42, WG2
1980-1990	U.S. Expert to ISO (International Organization for Standardization) on ceramics
1980-1990	U.S. Expert to ISO (International Organization for Standardization) on ceramics
1980-1990	Chairman, MD 156 Porcelain-Metal Systems Subcommittee, American National Standards Committee/American Dental Association
1980-1983	Member, MD 156 Tarnish and Corrosion Task Group, American National Standards Committee/American Dental Association
1980-1983	Member, Constitution and Bylaws Committee, Dental Materials Group, American Association of Dental Research, IADR
1980-1981	Representative, Prosthetic and Maxillofacial Materials Panel, Restorative Materials Program, National Institutes of Health, National Institute for Dental Research, Bethesda, Maryland
1978-1992	Secretary, MD 156 Dental Gold Alloys Subcommittee, American National Standards Committee/American Dental Association
1978-1992	Member, MD 156 Porcelain-Metal Systems Subcommittee, American National Standards Committee/American Dental Association

University Committees (Medical College of Georgia)

1982-1983	Secretary-Treasurer, Kappa Lambda Chapter, Omicron Kappa Upsilon, National Honorary Society, School of Dentistry
1982-1983	Member, MCG Educational Policies Committee
1982-1983	Member, MCG Academic Council
1981	Chairman, Committee on Incentives for Clinical Productivity and Efficiency, School of Dentistry
1980-1983	Career Development Committee, Tenure Policies,
1980-1983	Chairman, MCG Fringe Benefits Subcommittee

1980-1981	Chairman, Committee on Clinic Time Management
1980-1981	Chairman, Membership Committee, Omicron Kappa Upsilon, Honorary Dental Society, School of Dentistry
1979-1983	Student Evaluation Committee, School of Dentistry
1979-1983	Admissions Committee, School of Dentistry
1979-1983	MCG, Subcommittee on Fringe Benefits
1978-1979	Library Committee, School of Dentistry
	School of Dentistry
1978	Public Relations and Alumni Affairs Committee, School of Dentistry
1978	Nominating Committee, Omicron Kappa Upsilon, Honorary
1977-1978	Curriculum Committee, School of Dentistry
	Dental Society, School of Dentistry
1977	Search Committee, Associate Dean for Biological Sciences, School of Dentistry

University Committees (University of Florida)

2009-	Faculty Enhancement Opportunity (FEO) Committee
2009-	Academic Personnel Board (APB)
2005-2008	Member, Committee on Academic Freedom, Tenure, Professional Relations and Standards Committee
2002-2003	Search Committee, Assistant Vice President for Health Affairs for Information Systems and Support
2000-2002	Interim Director, Periodontal Disease Research Center
2000	Chair, Search Committee, Chair of Oral Biology
1997	Member, Research Advisory Board, Office of Research, Training, and Graduate Education, University of Florida
	College of Dentistry
1996	Ex-Officio Member, Research Committee, College of Dentistry
1996	Member, Search Committee for Chair, Department Of Orthodontics, College of Dentistry
1995	Member, Task Force on Research Infrastructure, College of Dentistry
1995	Member, Search Committee, Associate Dean for Academic Affairs,
1995	Member, Salary Equity Appeals Committee, University of Florida
1997-2003	Member, Tenure and Promotions Committee
1994-1997	Member, External Advisory
1994-1996	Member, Advisory Board, Particle Science Center, College of Engineering
1991	Member, Search Committee, Assistant/Associate Dean for Research,
	College of Dentistry
1990-1992	Member, University Senate, University of Florida
1988-1989	Member, Professional Relations and Standards Committee,
1987-1989	Member, Steering Committee, College of Dentistry
1986-1988	Chairman (1986) and Member, Research Committee, College of Dentistry
1986-1987	Member, Research Review Team, Pew Grant, College of Dentistry
1985-1987	Member, University Senate, University of Florida
	University of Florida
1994-	Member, Strategic Planning Committee, College of Dentistry
	Board
1984-1985	Member, Search Committee for Chairman of the Department of Operative Dentistry, College of Dentistry

1984	Member, Search Committee for Chairman of the Department of Basic Dental Sciences, College of Dentistry
1984	Member, Search Committee for faculty member in the Department of Endodontics, College of Dentistry
1984	Member, Ad-Hoc Committee on Student Leave Policy, College of Dentistry
1983-1985	Member, Steering Committee, College of Dentistry
1983-1984	Chairman, Research Committee, College of Dentistry
1983-	Member, Executive Board, College of Dentistry

UNIVERSITY GOVERNANCE AND SERVICE (UNIVERSITY OF FLORIDA)

2009-present	UF Academic Personnel Board
2009-present	UF Faculty Enhancement Opportunity (FEO) Committee
2006-present	Member, Security Program for the Information and Computing Environment (SPICE)
2006-2008	Member, UF Committee on Academic Freedom, Tenure, Professional Relations and Standards Committee
2005-present	Member, External Advisory Board, Advanced Postgraduate Program in Clinical Investigation (APPCI). APPCI has been developed by the University of Florida under the Clinical Research Curriculum Award (K-30) received from the NIH.
2005-present	Member, UFCD Strategic Planning Committee
2003-present	Participant, UF Minority Mentor Program
1997-present	Ex-officio member, Research Committee

Editorial Boards

2005-2007	Reviewer, Medical Principles and Practice
2004-	Reviewer, Journal of the American Dental Association
2004	<i>Reviewer, Journal of the American Ceramics Society</i>
2004	<i>Reviewer, Journal of Prosthodontics</i>
2001-2004	Reviewer, <i>Journal of Dental Research</i>
2000	<i>Journal of Esthetic Dentistry</i>
1993-2001	Editorial Board, <i>Journal of Dentistry</i>
2004-present	Editorial Board, <i>Dental Materials</i>
1992-2000	Section Editor, <i>Biomaterials</i> , Implant Dentistry Section
1991-2000	Section Editor, <i>Implant Dentistry</i> , Biomaterials Section
1991-1993	Section Editor, <i>Quintessence International</i>
1988-1993	Reviewer, <i>Journal of Oral Implantology</i>

Community Service



Teaching

Session	Course	Credit Hours	Class Size	Lecture	Tutorial or Lab
2003-present	DEN 8719L-Selection of Dental Materials for Clinical Practice	3	80	2	80 Tutorial & Lab
2001-present	Graduate Oral Biology Course (UF)	3	20	1	
2001-present	Cariology (UF)	4	80	2	
1983-present	DEN 8717L- Dental Biomaterials Lab (UF)	3	80		80 Tutorial & Lab
1983-2002	Dental Biomaterials III (Univ. Florida) (UF)	3	80	5	
1977-1983	Operative Dentistry Clinic (MCG)	5	40		~150 Tutorial
1977-1983	Fixed Prosthodontics Clinic (MCG)	5	40		~150 Tutorial
1973-1983	Dental Materials Science (Medical College of Georgia) (MCG)	3	40	10	
1973-1983	Dental Ceramics Course & Lab (MCG)	3	40	2	15 Lab

Graduate Student Committees

PUBLICATIONS

a. Books, Sole Author

None

b. Books, Co-authored

None

c. Books, Edited

1. Phillips' Science of Dental Materials, Eleventh Edition, **KJ Anusavice**, ed., Elsevier Science, St. Louis, MO, 2003, pp. 1-805.

Spanish edition: Phillips' Ciencia de los Materiales Dentales, Undécima edición, **K.J. Anusavice**, ed., translated by L.A. Moreno, J.M. Morillo Velázquez A.I. Tello Rodríguez, Elsevier España S.A., Madrid, Spain, 2004, pp. 1-805.

Portuguese edition: Phillips' Materiais Dentários, Décima edição, **K.J. Anusavice**, ed., translated by A. Reis, A D. Loguercio, J.R. de Oliveira Bauer, Elsevier Editora Ltda, Rio de Janeiro, 2005, pp. 1-764.

Korean edition: Phillips' Science of Dental Materials, Eleventh Edition, **K.J. Anusavice**, ed., translated by Charm Yun Publishing Co., 2006, pp. 1-825.

2. Phillips' Science of Dental Materials, Tenth Edition, **KJ Anusavice**, ed., W.B. Saunders Co., Philadelphia, PA, 1996, pp. 1-709. (Translated in Spanish and Portuguese.)

Spanish edition: Phillips' Ciencia de los Materiales Dentales, Décima edición, **K.J. Anusavice**, ed., translated by MFG Rocha and JS Castillo, McGraw-Hill Interamericana, Delegación Cuauhtémoc, Mexico, 1998, pp. 1-746.

Portuguese edition: Phillips' Materiais Dentários, Décima edição, **KJ Anusavice**, ed., translated by EJM Moreira, GR Alvares, RL Bastos, RS Reis, Editora Guanabara Koogan SA, Rio de Janeiro, 1998, pp. 1-412.

Indonesian Edition: Phillips Buku Ajar Ilmu Bahan Kedokteran Gigi, **KJ Anusavice**, ed., translated by J.A. Budiman, S. Purwoko, L. Juwono, Penerbit Buku Kedokteran EGC, Jakarta, 2004, pp. 1-603.

3. Quality Evaluation of Dental Restorations: Criteria for Placement and Replacement, **KJ Anusavice**, ed., Quintessence Publishing Co., Chicago, IL, 1989, pp. 1-424.

d. **Books, Contributor of Original Chapters**

1. **Anusavice KJ** (2003). The Maze of Treatment decisions. In: Dental Caries, The Disease and Its Clinical Management, O. Fejerskov and E. Kidd, eds., Blackwell Munksgaard, Oxford, UK, pp. 251-265.
2. **Anusavice KJ** (2003): Overview of Materials for Dental Applications (Chapter 1). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 3-19.
3. **Anusavice KJ**, Esquivel-Upshaw J (2002): Less abrasive ceramic esthetic materials. In: The Changing Practice of Restorative Dentistry, E. S. Duke, ed., Indiana University School of Dentistry, publisher, Indianapolis, IN, pp. 215-236.
4. **Anusavice KJ** (2001): Contributor to Chapter 7, Dental and Craniofacial Research, Future of Dentistry, ISBN: 0-910074-55-0, American Dental Association, pp. 116-155.
5. **Anusavice KJ** (2000): Need for early detection of caries lesions: A United States Perspective. In: Early Detection of Caries II. G.W. Stookey, Ed., Indiana University, Indianapolis, IN, pp.13-29.
6. **Anusavice KJ**, Reetz EA, DeFreest CF, and Schmidseider J (1998): Metallkeramik- und Vollkeramikresaurationen. In: Ästhetische Zahnmedizin, Farbatlanten der Zahnmedizin, 15, J. Schmidseider, Ed., Stuttgart, pp. 163-182.
7. **Anusavice KJ** (1996): Performance Standards for Dental Materials (Chapter 1). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 1-11.
8. **Anusavice KJ** (1995). Development and Testing of Ceramics for Dental Restorations In: Bioceramics: Materials and Applications. G. Fischman, A. Clare, and L. Hench, Eds., American Ceramic Society, Westerville, OH, pp. 101-124.
9. **Anusavice KJ** (1993). Benefits and limitations of restorative dental ceramics. In: Symposium on esthetic restorative materials. American Dental Association, Chicago, IL, pp. 73-79.
10. Clark AE, **Anusavice KJ** (1991). Dental applications. In: Engineered Materials Handbook, Chapter 4. Ceramics and glasses, Section 13: Applications for glasses, Other uses, S. R. Lampman, M.S. Woods, and T.B. Zorc, Eds., ASM International,

Materials Park, Ohio, pp. 1091-1099.

11. **Anusavice KJ** (1991). Alloys for cast metal and metal-ceramic restorations, In: Clinical Dentistry, Vol. 1, Chapter 30, edited by J.F. Hardin, J.B. Lippincott Co., Philadelphia, pp. 1-24.
12. **Anusavice KJ** (1988). Stress distribution in atypical crown designs, In: Perspectives in Dental ceramics. Proceedings of the Fourth International Symposium on Ceramics, edited by J.D. Preston, Quintessence Publishing Co., Chicago, IL, 175-191.
13. **Anusavice KJ** (1989). Criteria for selection of restorative materials: Properties vs. technique sensitivity. In: Quality Evaluation of Dental Restorations: Criteria for Placement and Replacement of Dental Restorations, K.J. Anusavice, Ed., Quintessence Publishing Co., Inc., pp. 15-56.
14. **Anusavice KJ** (1985). Noble metal alloys for metal-ceramic restorations, In: Dental Ceramics, Vol. 29, edited by W.J. O'Brien, W.B. Saunders Co., Philadelphia, pp. 789-803.
15. **Anusavice KJ** (1983). Screening tests for metal-ceramic systems. Dental ceramics. In: Proceedings of the First International Symposium on Ceramics, edited by J.W. McLean, Quintessence Publishing Co., Chicago, Illinois.
16. **Anusavice KJ**, Smith CD, Fairhurst CW, Beaudreau DE (1978). Alternatives to precious casting alloys. In: Clinical Dentistry, Vol. 4, Chapter 30, edited by James W. Clark, Harper and Row Publishers, Philadelphia, pp. 1-13.
17. **Anusavice KJ**, Smith CD, Fairhurst CW, Beaudreau DE (1977). Alternatives to precious casting alloys. In: Clinical Dentistry, Vol. 4, Chapter 30, edited by James W. Clark, Harper and Row Publishers, Philadelphia, pp. 1-10.

e. Books, Contributor to Revised Chapters

1. Contributor to revised chapter. **Anusavice KJ** (2003): Structure of Matter and Principles of Adhesion (Chapter 2). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 21-40.
2. Contributor to revised chapter. **Anusavice KJ** (2003): Physical Properties of Dental Materials (Chapter 3). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 41-71.
3. Contributor to revised chapter. **Anusavice KJ** (2003): Mechanical Properties of Dental Materials (Chapter 4). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 73-101.
4. Contributor to revised chapter. **Anusavice KJ** (2003): Gypsum Products (Chapter 10). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 255-281.
5. Contributor to revised chapter. **Anusavice KJ** (2003): Dental Waxes (Chapter 11). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 283-293.
6. Contributor to revised chapter. **Anusavice KJ** (2003): Casting Investments and Procedures (Chapter 12). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 295-350.
7. Contributor to revised chapter. **Anusavice KJ**, Antonson SA (2003). Finishing and Polishing Materials (Chapter 13). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 351-377.
8. Contributor to revised chapter. Marshall SJ, Marshall GW, **Anusavice KJ** (2003): Dental Amalgams (Chapter 17). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 495-543.

9. Contributor to revised chapter. **Anusavice KJ** (2003): Direct Filling Gold (Chapter 18). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 545-560.
10. Contributor to revised chapter. **Anusavice KJ**, Cascone C (2003): Dental Casting and Soldering Alloys, (Chapter 19). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 563-619.
11. Contributor to revised chapter. **Anusavice KJ** (2003): Dental Ceramics (Chapter 21). In: Phillips' Science of Dental Materials, 11th edition, K.J. Anusavice, ed., Elsevier Science, St. Louis, MO, pp. 655-719.
12. Contributor to revised chapter. **Anusavice KJ** (1996): Physical Properties of Dental Materials (Chapter 3). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 33-47.
13. Contributor to revised chapter. **Anusavice KJ** (1996): Mechanical Properties of Dental Materials (Chapter 4). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 49-74.
14. Contributor to revised chapter. **Anusavice KJ** (1996): Solidification and Microstructure of Metals (Chapter 14). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 315-326.
15. Contributor to revised chapter. **Anusavice KJ** (1996): Constitution of Alloys (Chapter 15). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 327-346.
16. Contributor to revised chapter. **Anusavice KJ** (1996): Dental Amalgam: Technical Considerations (Chapter 18). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 387-409.
17. Contributor to revised chapter. **Anusavice KJ** (1996): Direct Filling Gold and Its Manipulation (Chapter 19). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 411-422.
18. Contributor to revised chapter. **Anusavice KJ** (1996): Dental Casting Alloys (Chapter 20). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 423-459.
19. Contributor to revised chapter. **Anusavice KJ** (1996): Casting Procedures for Dental Alloys (Chapter 23). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 491-524.
20. Contributor to revised chapter. **Anusavice KJ** (1996): Dental Ceramics (Chapter 26). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 583-618.
21. Contributor to revised chapter. **Anusavice KJ** (1996): Soldering (Chapter 27). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 619-630.
22. Contributor to revised chapter. **Anusavice KJ** (1996): Wrought Base Metal and Gold Alloys (Chapter 28). In: Phillips' Science of Dental Materials, 10th edition, K.J. Anusavice, ed., W.B. Saunders Co., Philadelphia, PA, pp. 631-654.

f. Refereed Publications

1. Suputtamongkol K, Anusavice K (2010). Surface roughness as a resulting from wear of lithia-disilicate-based posterior crowns. Accepted in Wear.
2. Anunmana C, **Anusavice K.J**, Mecholsky JJ Jr (2010). Interfacial toughness of bilayer dental ceramics based on a short-bar, chevron-notch test. Dent Mater 26(2):111-117.

3. DeHoff PH, **Anusavice KJ** (2009). Viscoelastic finite element evaluation of the thermal compatibility of dental bilayer ceramic systems. *Int J Prosthodont* 22(1):56-61.
4. Residual stress in glass: Indentation crack and fractography approaches. *Dent Mater* 25(11): 1453-1458.
5. Loyola-Rodriguez J-P, Zavala-Alonso V, Reyes-Velaz E, Patino-Marin N; Ruiz F, **Anusavice, KJ** (2009). Atomic force microscopy observation of enamel roughness and depth profile after phosphoric acid etching. *J Electron Microscopy* (Tokyo), e-pub date: 2009/08/21.
6. Esquivel-Upshaw JF, Young H, Jones J, Yang M, **Anusavice KJ** (2008). Four-year clinical performance of a lithia disilicate-based core ceramic for posterior fixed partial dentures. *Int J Prosthodont* 21:155-160.
7. Suputtamongkol K, **Anusavice KJ**, Suchatlampong C, Sithiamnuai P, Tulapornchai (2008). Clinical performance and wear characteristics of veneered lithia-disilicate-based ceramic crowns. *Dent Mater* 24(5):667-673. (Open Access: <http://www.pubmedcentral.gov/articlerender.fcgi?artid=2346544>)
8. DeHoff PH, Barrett A, Lee RB, **Anusavice KJ** (2008). Thermal compatibility of dental ceramic systems using cylindrical and spherical geometries. *Dent Mater* 24(6):744-752. (Open Access ANIHMSID: NIHMS49528)
9. Taskonak B, Borges GA, Mecholsky JJ Jr, **Anusavice KJ**, Moore BK, Yan J (2008). The effects of viscoelastic parameters on residual stress development in a zirconia/glass bilayer dental ceramic. *Dent Mater* 24(9):1149-1155.
10. **Anusavice KJ**, Kakar K, Ferree N (2007). Which mechanical and physical testing methods are relevant for predicting the clinical performance of ceramic-based dental prostheses? *Clin Oral Implants Res* 18s3:218-231.
11. Oh WS, Zhang NZ, **Anusavice KJ** (2007). Effect of heat treatment on fracture toughness (K_{IC}) and microstructure of a fluorcanasite-based glass-ceramic. *J Prosthodont* 16(6):439-444.
12. Shen C, Shokry TE, **Anusavice KJ** (2007). Influence of pH and oxygen-inhibited layer on fluoride release properties of fluoride sealant, *J Dent* 35(4):275-281.
13. Suputtamongkol K, **Anusavice KJ**, Mecholsky JJ (2007). Fracture mechanics analysis of crack shapes due to cyclic loading in baria-silicate glass. *J Mater Res* 22(12):3415-3422.
14. Taskonak B, Mecholsky JJ Jr, **Anusavice KJ** (2006). Quantitative fracture surface analysis of clinically failed fixed partial dentures. *J Dent Res* 85(3):277-281.
15. DeHoff PH, **Anusavice KJ**, Goetzen N (2006). Viscoelastic finite element analysis of an all-ceramic fixed partial denture. *J Biomech* 39(1):40-48.
16. **Anusavice KJ**, Shen C, Zhang N-Z (2006). Controlled release of chlorhexidine from UDMA-TEGDMA resin. *J Dent Res* 85(10):950-954.
17. Della Bona A, **Anusavice KJ**, Mecholsky JJ Jr (2006). Apparent interfacial fracture toughness of resin/ceramic systems. *J Dent Res* 85: 1037-1041.
18. Esquivel-Upshaw JF, Young HM, Jones J, Yang M, **Anusavice KJ** (2006). In vivo wear of enamel by a lithia-disilicate core ceramic used for posterior FPDs: First-year results. *Int J Prosthodont* 19:391-396.
19. Taskonak B, Mecholsky JJ, Jr, **Anusavice KJ** (2005). Residual stresses in bilayer dental ceramics. *Biomaterials* 26(16):3235-3241.
20. Veazey WS, **Anusavice KJ**, Moore K (2005). Mammalian cell delivery via aerosol deposition. *J Biomed Mater Res B Appl Biomater* 72(2):334-348.
21. **Anusavice KJ**, Zhang NZ, Shen C (2005). Effect of CaF_2 content on rate of fluoride release from filled resins. *J Dent Res* 84(5):440-444.

22. **Anusavice KJ** (2005). Present and future approaches to the control of caries. *J Dent Educ* 69(5):538-554.
23. Taskonak B, **Anusavice KJ**, Mecholsky JJ Jr (2004). Role of investment interaction layer on strength and toughness of ceramic laminates. *Dent Mater* 20(8):701-708.
24. Esquivel-Upshaw J, **Anusavice KJ**, Young H, Jones J, Gibbs C (2004). Clinical performance of a lithia disilicate-based core ceramic for three-unit posterior FPDs. *Int J Prosthodont* 17(4):469-475.
25. DeHoff PH, **Anusavice KJ** (2004). Shear stress relaxation of dental ceramics determined from creep behavior. *Dent Mater* 20(8):717-725.
26. DeHoff PH, **Anusavice KJ** (2004). Creep functions of dental ceramics measured in a beam-bending viscometer. *Dent Mater* 20(8):297-304.
27. Della Bona A, Mecholsky JJ Jr, **Anusavice KJ** (2004). Fracture behavior of lithia disilicate- and leucite-based ceramics. *Dent Mater* 20(10):956-962.
28. Oh W-S, Park, JM, **Anusavice K** (2003). Fracture toughness (K_{IC}) of a hot-pressed core ceramic based on fractographic analysis of fractured ceramic FPDs. *Int J Prosthodont* 16(2): 135-140.
29. Oh W-S, Zhang N-Z, **Anusavice KJ** (2003). Effect of nucleation temperature on fracture toughness (K_{IC}) of fluorcanasite-based glass-ceramic. *Int J Prosthodont* 16(5):505-509.
30. **Anusavice KJ** (2003). Informatics systems to assess and apply clinical research on dental restorative materials, *Adv Dent Res* 17:43-48.
31. Griggs JA, **Anusavice KJ**, Mecholsky JJ Jr (2002). Devitrification and microstructural coarsening of a fluoride-containing barium aluminosilicate glass. *J Mater Sci* 37:2017-2022.
32. Della Bona A, **Anusavice KJ**, Hood JA (2002): Effect of ceramic surface treatment on tensile bond strength to a resin cement. *Int J Prosthodont* 15(3):248-253.
33. Della Bona A, **Anusavice KJ** (2002): Microstructure, composition, and etching topography of dental ceramics. *Int J Prosthodont* 15(2):159-167. Italian Version: Della Bona A, **Anusavice KJ** (2002): Microstruttura, composizione e topografia di mordenzatura delle caeramiche dentali. *La Rivista Internazionale di Odontoiatria Protesica* 2002;15(2):159-167.
34. Oh W, Götzen N, **Anusavice KJ** (2002): Influence of connector design on fracture probability of ceramic fixed-partial dentures. *J Dent Res* 81(9): 623-627.
35. Oh W-S, **Anusavice KJ** (2002): Effect of connector design on the fracture resistance of all-ceramic fixed partial dentures. *J Prosthet Dent* 87(5): 536-42.
36. Oh W-S, DeLong R, **Anusavice KJ** (2002): Factors affecting enamel and ceramic wear: a literature review, *J Prosthet Dent* 87(4): 451-459.
37. Oh W-S, Shen C, Alegre B, **Anusavice KJ** (2002): Wetting characteristic of ceramic to water and adhesive resin. *J Prosthet Dent* 88(6): 616-621.
38. Barrett AA, Grimaudo NJ, **Anusavice KJ**, Yang MCK (2002): Influence of tab and disk design on matching of dental porcelain. *J Prosthet Dent* 88:591-7.
39. Gibbs CH, **Anusavice KJ**, Young HM, Jones JS, Esquivel-Upshaw JF (2002): Maximum clenching force of patients with moderate loss of posterior tooth support: A pilot study. *J Prosthet Dent* 88(5):498-502.
40. **Anusavice KJ** (2001): Clinical decision-making for coronal caries management in the permanent dentition. *J Dent Educ* 65(10):1143-6.
41. Tinschert J, Natt G, Mautsch W, Spiekermann H, **Anusavice KJ** (2001): Marginal fit of alumina-and zirconia-based fixed partial dentures produced by a CAD/CAM system. *Oper Dent* 26(4):367-74.
42. Antonson SA, **Anusavice KJ** (2001): Contrast ratio of veneering and core ceramics as

- a function of thickness. *Int J Prosthodont* 14(4):316-20.
43. **Anusavice KJ**, Benn DK (2001). Is it time to change state and regional licensure board exams in response to evidence from caries research? *Crit Rev Oral Biol Med* 12(5):368-72.
 44. Hill TJ, Mecholsky JJ Jr, **Anusavice KJ** (2000): Fractal analysis of toughening behavior in 3BaO-5SiO₂ glass-ceramics. *J Am Ceram Soc* 83: 545-552.
 45. Wakabayashi N, **Anusavice KJ** (2000). Crack initiation modes in bilayered alumina/porcelain disks as a function of core/veneer thickness ratio and supporting substrate stiffness. *J Dent Res* 79(6):1398-404.
 46. Tinschert J, Zvez D, Marx R, **Anusavice KJ** (2000). Structural reliability of alumina-, feldspar-, leucite-, mica- and zirconia-based ceramics. *J Dent* 28(7):529-535.
 47. **Anusavice KJ** (2000): Die Materialien der Zukunft: Restaurierend oder Konservierend? *Ästhetische Zahnmedizin* 2:70-76.
 48. Esquivel-Upshaw J, **Anusavice KJ**, Reid M, Yang M, Lee R (2000): Ceramic design concepts based on stress distribution analysis. *Compendium* 21:649-656.
 49. Della Bona A, **Anusavice KJ**, Shen C (2000): Microtensile strength of composite bonded to hot-pressed composite. *J Adhesive Dent* 2:305-313.
 50. **Anusavice KJ** (1999). Does ART have a place in preservative dentistry? *Community Dent Oral Epidemiol* 27:1-7.
 51. Zhang N-Z, **Anusavice KJ** (1999): Effect of alumina on the strength, fracture toughness, and crystal structure of fluorcanasite glass-ceramic. *J Am Ceram Soc* 82(9):2509-2513.
 52. **Anusavice KJ** and Zhang N-Z (1998). Chemical durability of Dicor and fluorcanasite-based glass-ceramics. *J Dent Res* 77(7):1553-1559.
 53. Tsai YL, Petsche PE, **Anusavice KJ**, Yang MC (1998). Influence of glass-ceramic thickness on Hertzian and bulk fracture mechanisms. *Int J Prosthodont* 11(1):27-32.
 54. Italian translation: Tsai YL, Petsche PE, **Anusavice KJ**, Yang MC (1998). Influenza di frattura dello spessore della vetro-ceramica sui meccanismi hertziani e grossolani. *La Revista Internazionale di Odontoiatria Protesica* 11(1):27-32.
 55. DeHoff PH, **Anusavice KJ**, Hojjatie, B (1998): Thermal incompatibility analysis of metal-ceramic systems based on flexural displacement data. *J Biomed Mater Res* 41:614-623.
 56. Nakamura Y, **Anusavice KJ** (1998): Marginal distortion of thermally incompatible metal-ceramic crowns with overextended margins. *Int J Prosthodont* 11:325-332.
 57. **Anusavice KJ** (1998): Management of dental caries as a chronic infectious disease. *J Dent Edu* 62(10):791-802.
 58. **Anusavice KJ** (1998): Buonocore Memorial Lecture. Materials of the future: preservative or restorative? *Oper Dent* 23(4):162-167.
 59. Hickel R, Dasch W, Janda M, Tyas M, **Anusavice K** (1998): New direct restorative materials. FDI project. *Int Dent J* 48:3-16.
 60. DeHoff PH, **Anusavice KJ** (1998): Viscoelastic stress analysis of thermally compatible and incompatible metal-ceramic systems. *Dent Mater* 14(4):237-245.
 61. **Anusavice KJ** (1998): Chlorhexidine, fluoride varnish, and xylitol chewing gum; underutilized preventive strategies. *Gen Dent* 46(1):34-38.
 62. **Anusavice KJ**, Zhang N-Z (1997). Chemical durability of Dicor and lithia-based glass-ceramics. *Dent Mater* 13:13-19.
 63. **Anusavice KJ**, Tsai YL (1997). Stress distribution in ceramic crown forms as a function of thickness, elastic modulus, and supporting substrate. Proceedings of the Sixteenth Southern Biomedical Engineering Conference, J.D. Bumgardner and A.D. Puckett, eds., Biloxi, MS, pp. 264-267.

64. **Anusavice KJ** (1997). Efficacy of nonsurgical management of the initial caries lesion. *J Dent Educ* 61(11):895-905.
65. **Anusavice KJ**, Zhang N-Z (1997). Effect of crystallinity on strength and fracture toughness of $\text{Li}_2\text{O}-\text{Al}_2\text{O}_3-\text{CaO}-\text{SiO}_2$ glass-ceramics. *J Am Ceram Soc* 80 (6):1353-1358.
66. Nakatsuka A, **Anusavice KJ** (1997): Finite element analysis of stress distribution in porcelain disks. *J Mater Sci* 32:3621-3627.
67. Goldstein RE, Mayes D, Hunter RE, Homoly P, **Anusavice KJ** (1997). Managed care in dentistry [editorial]. *Quintessence Int* 28(3):210-217.
68. DeHoff PH, Vontvillu SB, **Anusavice KJ** (1996). Analysis of tempering stresses in metal-ceramic disks. *J Dent Res* 75(2): 743-751.
69. Griggs JA, Thompson JY, **Anusavice KJ** (1996). Effect of flaw size and auto-glaze treatment on porcelain strength. *J Dent Res* 75(6):1414-1417.
70. **Anusavice KJ** (1996). Challenges to the development of esthetic alternatives to dental amalgam in an academic research center. Proceedings conference on "Clinically appropriate alternatives to amalgam: Biophysical factors in restorative decision-making," *Transactions Acad Dent Mater* 9:25-50.
71. Sokolowski TM, Hojjatie B, Nemeth NN, **Anusavice KJ** (1996). Stress and reliability analysis of a metal-ceramic dental crown. NASA Technical Memorandum 107178, pp. 1-18. (Prepared for the ANSYS Conference and Exhibition, Pittsburgh, PA, May 20-22, 1996.
72. Thompson JY, **Anusavice KJ**, Naman A, Morris HF (1995). Fracture surface characterization of clinically failed all-ceramic crowns. *J Dent Res* 73(12):1824-1832.
73. DeHoff PH, Vontvillu SB, Wang Z, **Anusavice KJ** (1995). Stress relaxation behavior of dental porcelains at high temperature. *Dent Mater* 10:178-184.
74. Shen C, Sarrett D, Batich CD, **Anusavice KJ** (1995). System for the pH-dependent release of a dye in model dental restorations. *J Dent Res* 73(12):1833-1840.
75. **Anusavice KJ** (1995). Treatment regimens in preventive and restorative dentistry. *J Am Dent Assoc* 126:727-743.
76. Spanish translation: **Anusavice KJ** (1996). Regímenes terapéuticos en odontología preventiva y restauradora. *Archivos de Odonto Estomatología* 12(4):208-224.
77. **Anusavice KJ** (1995). Preservative dentistry: The standard of care for the 21st century (Invited editorial). *J Public Health Dent* 55(2):67.
78. Griggs JA, Shen C, **Anusavice KJ** (1995). Sensitivity of catalyst/base ratio on curing of resin luting agents: Polymerization exotherm analysis. *Dent Mater* 10:314-318.
79. DeHoff PH, **Anusavice KJ**, Wang Z (1995). Three-dimensional finite element analysis of the shear bond test. *Dent Mater* 11:126-131.
80. **Anusavice KJ**, Marker, VM (1995). Preservative Dentistry: A Longitudinal Approach (Invited editorial). *Dent Abstracts* 40(6):270-271.
81. Thompson JY, **Anusavice KJ**, Balasubramaniam B, Mecholsky JJ (1995). Effect of microcracking on the fracture toughness and fracture surface fractal dimension of lithia-based glass-ceramics. *J Am Ceram Soc* 78(11):3045-3049.
82. Thompson JY, **Anusavice KJ** (1994). Effect of surface etching on the flexure strength and fracture toughness of Dicor® disks containing controlled flaws. *J Dent Res* 73(2):505-510.
83. **Anusavice KJ**, Zhang N-Z, Moorhead JE (1994). Influence of colorants on crystallization and mechanical properties of lithia-based glass-ceramics. *Dent Mater* 10:141-146.
84. **Anusavice KJ**, Hojjatie B, Chang T-C (1994). Effect of grinding and fluoride gel exposure on strength of ion-exchanged porcelain. *J Dent Res* 73(8):1444-1449.

85. **Anusavice KJ**, Zhang N-Z, Moorhead JE (1994). Influence of P_2O_5 , $AgNO_3$, and $FeCl_3$ on color and translucency of lithia-based glass-ceramics. *Dent Mater* 10(4):230-235.
86. Moorhead JE, Rao PV, **Anusavice KJ** (1994). Guidelines for experimental studies. *Dent Mater* 10(1):45-51.
87. Parsell DE, **Anusavice KJ** (1994). Optimization of glass-ceramic crystallization based on DTA exotherm analysis. *Dent Mater* 10:167-171.
88. Hojjatie B, **Anusavice KJ** (1993). Effects of initial temperature and tempering medium on tempering of dental porcelain. *J Dent Res* 72(3):566-571.
89. **Anusavice KJ** (1993). Recent developments in restorative dental ceramics. *J Am Dent Assoc* 124:72-84.
90. **Anusavice KJ**, Söderholm K-J, Grossman DG (1993). Implications of amalgam and ceramic degradation in the oral environment. *Materials Research Society Bulletin*. 18(9):64-72.
91. DeHoff PH, **Anusavice KJ** (1992). Analysis of tempering stresses in bilayered porcelain discs. *J Dent Res* 71(5):1139-1144.
92. **Anusavice KJ**, Hojjatie B (1992). Tensile stress in glass-ceramic crowns: Effect of flaws and cement voids. *Int J Prosthodont* 5(4):351-358.
93. **Anusavice KJ** Shen C, Vermost B, Chow B. (1992). Strengthening of porcelain by ion exchange subsequent to thermal tempering. *Dent Mater* 8:149-152.
94. **Anusavice KJ**, Shen C, Lee RB (1992). Strengthening of feldspathic porcelain by ion exchange and tempering. *J Dent Res* 71(5):1134-1138.
95. **Anusavice KJ** (1992). New dental ceramics: Sacrifice of longevity for esthetics? *AGD Impact* pp. 14-15.
96. Söderholm KM, Roberts MJ, Antonson DE, **Anusavice KJ**, Mauderli AP, Sarrett DC, Warren JW (1992). Visual and profilometric wear measurements. *Acta Odontol Scand* 50:121-127.
97. Ban S, Hasegawa J, **Anusavice KJ** (1992). Effect of loading conditions on bi-axial flexure strength of dental cements. *Dent Mater* 8:100-104.
98. **Anusavice KJ** (1992). Decision analysis in restorative dentistry. *J Dent Edu* 56 (12):813-823.
99. **Anusavice KJ** (1992). Degradability of dental ceramics, *Adv Dent Res* 6:82-89.
100. **Anusavice KJ**, Gray A, Shen C (1991). Influence of initial flaw size on crack growth of air-tempered porcelain. *J Dent Res* 70:131-136.
101. **Anusavice KJ**, Hojjatie B (1991). Effect of thermal tempering on strength and crack propagation behavior of feldspathic porcelains. *J Dent Res* 70(6):1009-1013.
102. Hojjatie B, **Anusavice KJ** (1990). Three-dimensional finite element analysis of glass-ceramic dental crowns. *J Biomech* 23(11):1157-1166.
103. Ban S, **Anusavice KJ** (1990). Influence of test method on failure stress of brittle dental materials. *J Dent Res* 69(12):1791-1799.
104. DeHoff PH, **Anusavice KJ**, Evans J, Wilson HR (1990). Effectiveness of cast-joined Ni-Cr-Be structures. *Int J Prosthodont* 3:550-554.
105. DeHoff PH, **Anusavice KJ** (1989). Tempering stresses in feldspathic porcelain. *J Dent Res* 68:134-138.
106. **Anusavice KJ**, Gray AE (1989). Influence of framework design, contraction mismatch, and thermal history on porcelain checking in fixed partial dentures. *Dent Mater* 5:58-63.
107. DeHoff PH, **Anusavice KJ** (1989). Effect of visco-elastic behavior on stress development in a metal-ceramic system. *J Dent Res* 68:1223-1230.
108. **Anusavice KJ**, Lee RB (1989). Effect of firing temperature and water exposure on crack propagation in unglazed porcelain. *J Dent Res* 68:1075-81.

109. **Anusavice KJ**, DeHoff PH, Hojjatie B, Gray A (1989). Influence of tempering and contraction mismatch on crack growth in ceramic surfaces. *J Dent Res* 68(7):1182-1187.
110. **Anusavice KJ** (1989). Evaluation of dental restorations. Summary statements, *Oral Health* 79:39-41.
111. Coffey JP, **Anusavice KJ**, DeHoff PH, Lee RB, Hojjatie B (1988). Influence of contraction mismatch and cooling rate on flexural failure of PFM systems. *J Dent Res* 67(1):61-65.
112. **Anusavice KJ** (1988). Criteria for placement and replacement of dental restorations. *Florida Dent J* 59(2):30-31.
113. **Anusavice KJ** (1988). Criteria for placement and replacement of dental restorations: An international consensus report. *Int Dent J* 38:193-194.
114. **Anusavice KJ**, Hojjatie B (1988). Influence of incisal length of ceramic and loading orientation on stress distribution in ceramic crowns. *J Dent Res* 67(11):1371-1375.
115. **Anusavice KJ**, DeHoff PH, Gray A, Lee RB (1988). Delayed crack development in porcelain due to incompatibility stress. *J Dent Res* 67:1086-1091.
116. **Anusavice KJ**, Carroll JE (1987). Effect of incompatibility stress on the fit of metal-ceramic crowns. *J Dent Res* 66:1341-1345.
117. **Anusavice KJ**, Hojjatie B (1987). Stress distribution in metal-ceramic crowns with a facial porcelain margin. *J Dent Res* 66(9):1493-1498.
118. **Anusavice KJ**, Kincheloe JE (1987). Comparison of pain associated with mechanical and chemomechanical removal of caries. *J Dent Res* 66(11):1680-1683.
119. DeHoff PH, **Anusavice KJ** (1986). An analytical model to predict the effects of heating rate and applied load on glass transition temperatures of dental porcelain. *J Dent Res* 65:643-647.
120. **Anusavice KJ**, Shafagh I (1986). Inert gas presoldering of nickel-chromium alloys, *J Prosthet Dent* 55:317-323.
121. **Anusavice KJ**, Hojjatie B, DeHoff PH (1986). Influence of metal thickness on stress distribution in metal-ceramic crowns. *J Dent Res* 65(9):1173-1178.
122. Kaminski RA, **Anusavice KJ**, Morse PK, Lockwood PC (1985). Castability of silver-based fixed partial denture alloys. *J Prosthet Dent* 53:329-332.
123. **Anusavice KJ**, Shen C, Hashinger D, Twiggs, SW (1985). Interactive effect of stress and temperature on creep of PFM alloys. *J Dent Res* 64:1094-1099.
124. **Anusavice KJ**, Okabe T, Galloway SE, Hoyt DJ, Morse PK (1985). Flexure test evaluation of presoldered base metal alloys. *J Prosthet Dent* 54:507-517.
125. **Anusavice KJ** (1985). Report on base metal alloys for crown and bridge applications: Benefits and risks. *J Am Dent Assoc* 111:479-483.
126. DeHoff PH, **Anusavice KJ** (1985). Analysis of alloy-porcelain compatibility using a multi-component material strip equation. *J Dent Res* 64:1337-1344.
127. DeHoff PH, **Anusavice KJ** (1984). Effect of metal design on marginal distortion of metal-ceramic crowns. *J Dent Res* 63:1327-1331.
128. DeHoff PH, **Anusavice KJ**, Boyce RJ (1983). Analysis of thermally induced stresses in porcelain-metal systems. *J Dent Res* 62(2):593-597.
129. **Anusavice KJ**, DeHoff PH, Lockwood PC (1983). Thermal shock resistance of porcelain discs. *J Dent Res* 62:1082-1085.
130. **Anusavice KJ**, Twiggs SW, DeHoff PH, Fairhurst CW (1982). Correlation of thermal shock resistance with thermal compatibility data for porcelain-metal systems. *J Dent Res* 61:419-422.
131. DeHoff PH, **Anusavice KJ**, Hathcock PW (1982). An evaluation of the four point flexure test for metal-ceramic bond strength. *J Dent Res* 61:1066-1069.

132. Fairhurst CW, **Anusavice KJ**, Ringle RD, Twigg SW (1981). Porcelain-metal thermal compatibility. *J Dent Res* 60:815-819.
133. **Anusavice KJ**, Ringle RD, Morse PJ, Fairhurst CW, King GE (1981). A thermal shock test for porcelain-metal Systems. *J Dent Res* 60:1686-1691.
134. **Anusavice KJ**, DeHoff PH, Fairhurst CW (1980). Comparative evaluation of ceramic-metal bond tests using finite element stress analysis. *J Dent Res* 59(3):608-613.
135. Fairhurst CW, **Anusavice KJ**, Hashinger DT, Ringle RD, Twigg SW (1980). Thermal expansion of dental alloys and porcelains. *J Biomed Mater Res* 14:435-446.
136. **Anusavice KJ**, Ringle RD, Fairhurst CW (1979). Identification of fracture zones in porcelain-veneered-to metal bond test specimens by ESCA analysis. *J Prosthet Dent* 42:417-421.
137. Ringle RD, Fairhurst CW, **Anusavice KJ** (1979). Microstructures in non-precious alloys near the porcelain-metal interaction zone. *J Dent Res* 58:1987-1993.
138. **Anusavice KJ**, Ringle RD, Fairhurst CW (1978). Adherence controlling elements in ceramic-metal systems. Part II. Nonprecious alloys. *J Dent Res* 56(9):1053-1061.
139. **Anusavice KJ**, Ringle RD, Fairhurst CW (1977). Adherence controlling elements in ceramic-metal systems. Part I. Precious alloys. *J Dent Res* 59:1045-1052.
140. **Anusavice KJ**, Ringle RD, Fairhurst CW (1977). Bonding mechanism evidence in a ceramic-nonprecious alloy system, *J Biomed Mater Res* 11:701-709.
141. DeHoff RT, **Anusavice KJ**, Wan CC (1974). Diffusion composition path patterns in ternary systems. *Met Trans* 5:1113-1126.
142. **Anusavice KJ**, DeHoff RT (1972). Diffusion of the tracers, Cu⁶⁷, Ni⁶⁶, and Zn⁶⁵ in copper-rich solid solutions in the system Cu-Ni-Zn. *Met Trans* 3:1279-1298.
143. DeHoff RT, Guy AG, **Anusavice KJ**, Lindemer TB (1968). The diffusion of the tracer, Zn⁶⁵ in the copper rich corner of the alpha solid solution in the system Cu-Ni-Zn. *Trans Met Soc* 242:2027.
144. **Anusavice KJ**, Pinajian JJ, Oikawa H, DeHoff RT (1968). Utilization of Ni⁶⁶ in tracer diffusion studies. *Trans Met Soc AIME* 242:2027-2029.
145. Oikawa H, **Anusavice KJ**, DeHoff RT, Guy AG (1968). Diffusion of Zn⁶⁵ in copper-rich solid solutions of Cu-Ni-Zn alloys, *ASM Trans Quart* 61:354-356.

g. Non-refereed Publications

1. **Anusavice KJ** (2003). Seven secrets to discovery. *J Dent Res* 82(6): 413-414.
2. **Anusavice KJ** (2001): Caries Risk Assessment, Oper Dent, Supplement No. 6 Management Alternatives for the Carious Lesion, Proceedings from the International Symposium, pp. 19-26.
3. Tyas MJ, **Anusavice KJ**, Frencken JE, Mount GJ (2000): Minimal intervention dentistry—A review. FDI Commission Project 1-97. *Int Dent J* 50:1-12.
4. **Anusavice KJ**, Tsai YL (1997): Das Bruchverhalten keramischer Kronen, *Phillip Journal* 11-12:367-368.
5. **Anusavice KJ** (1996). Metal-ceramics and dental ceramics for the 21st century. Proceedings, The Third International Symposium on Titanium in Dentistry, T. Mori and C.J. Thomas, eds., The Biomaterials Science Unit, The University of Sydney, pp. 137-154.
6. **Anusavice KJ**, Mjör IA (1991). Response to patients who inquire about the safety of dental amalgam. *Quintessence International* 22(4):249-250.
7. **Anusavice KJ** (1991). Recent advances in dental ceramics. *Shikagu* 79(4): 1089-1098.
8. **Anusavice KJ**, Clark AE, Shen C, Batich C, Sarrett D, Li R, Parsell, D. (1991). Recent advances in dental biomaterials, Proceedings, Center for Surface Science and

Engineering, Annual Research Highlights, University of Florida, pp. 34-46.

9. DeHoff PH, **Anusavice KJ** Gray A (1990). Tempering as a means to strengthen porcelain-fused-to-metal restorations, Proceedings of the 27th Annual Rocky Mountain Bioengineering Symposium, 167-171, Denver, CO.
10. **Anusavice KJ**, deRijk WG (1990). Performance of dental biomaterials: Conference report, *Dent Mater* 6:69-72.
11. **Anusavice KJ** (1989). Dental ceramics and metal-ceramics, Proceedings, International Congress of Dental Materials, pp. 152-178.
12. Tesk JA, **Anusavice KJ** (1988). Summary of conference on design of dental prostheses. *Dent Mater* 4:49-50.
13. **Anusavice KJ** (1988). Dental impression materials: Reactor response, *Adv Dent Res* 2:65-69.
14. **Anusavice KJ**, Söderholm K-J, Mohammed H, Shen C. (1983). Consequences of mercury exposure in dentistry: A review of the literature, *Florida Dent J* 54:17-21, Winter.
15. **Anusavice KJ** (1970). Tracer diffusion behavior and interdiffusion in copper-rich Cu-Ni-Zn alloys, Ph.D. dissertation, University of Florida, Gainesville

h. Abstracts (Non peer-reviewed manuscripts published between 1986 and 2009)

1. Barrett AA, Barret E, Mecholsky JJ JR, **Anusavice KJ** (2009). Non-Euclidean fractal dimensional increment (D*) for bilayer dental ceramics. *J Dent Res* 88:Spec Issue A
2. Esquivel-Upshaw J, Rose W, Oliveira ER, **Anusavice KJ (2009)**. In vivo analysis of enamel wear against ceramic materials (2008). *J Dent Res* 88:Spec Iss A.
3. Anunmana C, **Anusavice KJ**, Mecholsky JJ Jr (2009). Effect of surface area on bond strength and interfacial toughness. *J Dent Res* 88: Spec Iss A
4. **Anusavice K**, Jadaan O, Barrett AA, Lee B (2010). CARES/Life survival predictions for bilayer ceramic crowns. *J Dent Res* 88: Spec Iss A
5. Barrett AA, **Anusavice KJ**, Shen C, DeHoff PH (2008). Indentations cracks: useful for estimating residual incompatibility stresses in metal-ceramics? *J Dent Res* 87: Spec Iss B.
6. Anunmana C, Mecholsky JJ Jr., **Anusavice KJ** (2008) Interfacial toughness of bilayer dental ceramics. *J Dent Res* 87: Spec Iss B.
7. Zhang N-Z, Shen, **Anusavice KJ** (2007). Release of fluoride and chlorhexidine from rosin with water-soluble additive *J Dent Res* 88: Spec Iss A
8. Taskonak B, Borges GA, Mecholsky JJ, **Anusavice KJ (2008)**. Effects of Viscoelastic Parameters on Residual Stresses in Zirconia/Glass Ceramics. *J Dent Res* 87: Spec Iss A
9. Della-Bona A, Mecholsky JJ, **Anusavice KJ** (2007). Why do different flexural strength methods produce different values? *J Dent Res* 86A: Abst. No.1281.
10. Anunmana C, Mecholsky JJ Jr, **Anusavice KJ** (2007). Interfacial Toughness of Dental Ceramics using Chevron-notched Short-bar Specimens *J Dent Res* 86A: Abst. No. 382.
11. Levy AA, Barrett A, Shen C, **Anusavice KJ** (2007). Distribution of residual stresses in monolithic and bilayer veneering ceramic. *J Dent Res* 86A: Abst. No. 884.
12. Mecholsky JJ Jr, Taskonak B, **Anusavice KJ** (2007). Application of fractal geometry to failure analysis of dental prostheses. *J Dent Res* 86A: Abst. No.128.
13. Barrett A, Shen C, Levy A, **Anusavice KJ** (2007). Inter-observer and intra-observer indentation crack measurement reliability. *J Dent Res* 86A: Abst. No.1282.
14. Zhang N-Z, Mathis N, Shen C, **Anusavice KJ** (2007). Influence of CaF₂ particle size on fluoride ion release. *J Dent Res* 86A: Abst. No.1644.

15. Foerster H, Esquivel-Upshaw J, Rose W, **Anusavice KJ** (2007). Influence of clenching force on enamel wear by ceramic antagonists. *J Dent Res* 86A: Abst. No. 2590.
16. Frank E, Barrett AA, Shen C, **Anusavice KJ** (2006). Residual stress modulation of a veneering ceramic by thermal conditioning. *J Dent Res* 85: Abst. No. 1883.
17. Suputtamongkol K, **Anusavice KJ**, Suchatlampong C, Sithiamnuai P, Tulapornchai C, Jirajariyavej B (2006). Clinical performance and wear of posterior hot-pressed ceramic crowns. *J Dent Res* 86: Abst No. 2106.
18. **Anusavice KJ**, DeHoff PH (2006). Effect of core thickness on tensile stress in ceramic crowns, *J Dent Res* 86: Abst No. 1963.
19. Barrett AA, Wilson CA II, Shen C, **Anusavice KJ**, DeHoff PH (2006). Thermal-shock resistance of bilayered zirconia/porcelain as influenced by interfacial treatment. *J Dent Res* 85: Abst. No. 1357.
20. Esquivel-Upshaw J, **Anusavice KJ**, Jones J, Young H, Yang M (2006). Four year in vivo performance of a Lithia-disilicate based ceramic. *J Dent Res* 85: Abst. No. 1903.
21. Esquivel-Upshaw J, **Anusavice KJ**, Jones J, Young H, Yang M (2006). Comparison of reinforced glass ionomer and dual cure resin cement. *J Dent Res* 85: Abst. No. 1904.
22. Zhang N-Z, Shen C, **Anusavice KJ** (2006) Controlled release of fluoride and chlorhexidine from a UEDMA-TEGDMA resin. *J Dent Res* 85: Abst. No. 1403.
23. Yan J, **Anusavice KJ**, Mecholsky JJ, Barrett AA, Lee RB (2006). Residual Stress in the Veneer of a Compatible Metal-Ceramic System. *J Dent Res* 85: Abst. No. 77.
24. Zhang N-Z, Shen C, **Anusavice KJ** (2005). Controlled release of chlorhexidine from UEDMA-TEGDMA Resin. *J Dent Res* 85: Abst. No. 3066.
25. Barrett AA, Grimaudo NJ, **Anusavice KJ** (2005). Degradation effects of mucin on three dental ceramics. *J Dent Res* 85: Abst. No. 1779.
26. Alauddin S, Greenspan D, **Anusavice KJ**, Mecholsky J (2005). In vitro human enamel remineralization using bioactive glass containing dentifrice. *J Dent Res* 85: Abst. No. 2546.
27. Taskonak B, DeHoff PH, **Anusavice KJ**, Mecholsky JJ (2005). Residual stress determination in dental ceramics using finite element analysis. *J Dent Res* 85: Abst. No. 2565.
28. Taskonak B, Yan J, Mecholsky JJ, **Anusavice KJ**, Souillart A (2005). Fractal dimensional increments for bilayer dental ceramics. *J Dent Res* 85: Abst. No. 1464.
29. Taskonak B, Griggs J, Mecholsky JJ, DeHoff PH, **Anusavice KJ** (2005). Comparison of residual stress measurement techniques for dental ceramics. *J Dent Res* 85: Abst. No. 2566.
30. Taskonak B, Mecholsky J, **Anusavice KJ** (2004). Thermal treatment of veneered lithia-disilicate-based core ceramic to optimize strength. *J Dent Res* 84, Abst. No. 1828.
31. Bhatavadekar N, **Anusavice KJ**, Rodrigues PH, Kozarov E, Progulske-Fox A (2004). Combinations of tt-farnesol with kaemferol and quercetin against *Streptococcus mutans* UA-159. *J Dent Res* 84, Abst. No. 2282.
32. Zhang N-Z, Shen C, **Anusavice KJ** (2004). Effect of CaF₂ content and pH on composite fluoride-release properties. *J Dent Res* 84, Abst. No. 3228.
33. Barrett A, **Anusavice KJ**, Lee RB (2004). A bilayered ceramic model for analysis of thermal incompatibility stresses. *J Dent Res* 84, Abst. No. 1826.
34. Shen C, Shokry TE, **Anusavice KJ** (2004). Influence of pH and oxygen-inhibited layer on sealant fluoride-release properties. *J Dent Res* 84, Abst. No. 2682.
35. Suputtamongkol K, **Anusavice KJ**, Mecholsky J (2004). Fatigue behavior of a lithia-disilicate-based hot-pressed ceramic. *J Dent Res* 84, Abst. No. 532.
36. Barrett AA, Grimaudo NJ, **Anusavice KJ**, Haghani M. (2003) Effect of substrate stiffness on fracture resistance of bonded veneering ceramics. *J Dent Res*, Abst. No. 813.
37. Esquivel-upshaw J, **Anusavice KJ**, Young H, Jones J, Gibbs C (2003). In vivo comparison of a reinforced glass-ionomer cement and a dual-cure resin cement, *J Dent*

Res, Abst. No. 612.

38. Esquivel-Upshaw J, **Anusavice KJ**, Young H, Jones J, Gibbs C (2003). In vivo performance of an experimental core ceramic for posterior FPDs – 2 -year Evaluation J Dent Res Abst. No. 608.
39. Esquivel-Upshaw J, **Anusavice KJ**, Young H, Jones J, Gibbs C. (2003). Relationship of occlusal force to fracture potential of posterior ceramic FPDs, J Dent Res 83, Abst. No. 72.
40. Esquivel-Upshaw J, **Anusavice KJ**, Young H, Jones J, Gibbs C. (2003). In vivo wear of enamel by a core ceramic used for posterior FPDs. J Dent Res 83, Abst. No. 2633.
41. Oh W, Shen C, **Anusavice KJ** (2003). Effect of Flame Cleaning of Ceramic Surfaces on the Bond Strength of Resin-based Composite to Ceramic. J Dent Res, Abst. No. 913.
42. Shen C, Shokry TE, Oh W, **Anusavice KJ** (2003). Effect of drying on the contact angle of ceramic surfaces. J Dent Res, Abst No. 585.
43. Shen C, **Anusavice KJ** (2003). Effect of molecular weight of polyacid on fluoride release from glass-ionomer cements. J Dent Res 83, Abst. No. 1823.
44. Taskonak B, Mecholsky JJ, **Anusavice KJ** (2003). Fracture surface characterization of clinically failed all-ceramic fixed partial dentures. J Dent Res, Abst. No. 445.
45. Veazey WS, Moore K, Shen C, **Anusavice KJ** (2003). Differential viability rates of bovine dermal fibroblasts delivered via air propulsion. J Dent Res, Abst. No. 1364.
46. Zhang N-Z, Shen C, **Anusavice KJ** (2003). Effect of environmental pH on fluoride release from UEDMA-TEGDMA composite J Dent Res, Abst. No. 1317.
47. Della Bona A, Shen C, Mecholsky JJ Jr, **Anusavice KJ** (2002). Relationship between work of adhesion and interfacial toughness for ceramic-resin systems. J Dent Res 82: Abst. No, 379.
48. Della Bona A, Mecholsky JJ Jr, **Anusavice KJ** (2002). Apparent fracture toughness of resin composite bonded to ceramic. J Dent Res 82, Abst. No. 1149.
49. Park J-M, **Anusavice KJ**, Shen C (2002). Influence of investment/ceramic interaction layer on interfacial crack propagation in veneered Lithia-based ceramic. J Dent Res 82: Abst. No. 1179.
50. Alegre B, Song EM, Shen C, **Anusavice KJ** (2002). Effect of surface treatments on the wettability of ceramics by resin. J Dent Res 82: Abst. No. 1687.
51. Zhang N-Z, **Anusavice KJ** (2002). Crystal size and their distribution in hot-pressed Empress ceramics. J Dent Res 82: Abst. No. 1944.
52. Barrett AA, **Anusavice KJ**, DeHoff PH (2002). Bilayered ceramic spheres: Useful test for thermal incompatibility? J Dent Res 82: Abst. No. 1945.
53. Suputtamongkol K, **Anusavice KJ**, Mecholsky JJ Jr (2002). Cyclic fatigue behavior of baria-silicate glass-ceramics. J Dent Res 82: Abst. No, 1946.
54. Esquivel-Upshaw J, **Anusavice KJ**, Young H, Jones J, Yang M (2002). In vivo performance of an experimental core ceramic for posterior FPDs. J Dent Res 82: Abst. No. 2635.
55. Taskonak B, **Anusavice KJ**, Mecholsky JJ (2002). Influence of investment interaction layer on strength of veneered hot-pressed core ceramics. J Dent Res 82: Abst. No. 3839.
56. Taskonak B, Mecholsky JJ, **Anusavice KJ** (2002). Determination of residual stresses in bilayered ceramics using fracture mechanics. J Dent Res 82: Abst. No. 3957.
57. Oh W, Park J, **Anusavice KJ** (2002). Comparative fracture toughness (K_{IC}) of a hot-pressed dental ceramic. J Dent Res 82: Abst. No. 4079.
58. Della Bona A, Mecholsky JJ Jr, **Anusavice KJ** (2001). Fracture toughness of resin composite bonded to Lithia disilicate ceramic. J Dent Res 80: Abstr. No. 38, 40.
59. Della Bona A, Shen C, Raines C, **Anusavice KJ** (2001). Effect of silane coated ceramic on work of adhesion. J Dent Res 80: Abstr. No. 39, 40.
60. Barrett AA, Grimaudo NJ, Clark AE, **Anusavice KJ** (2001). Hydroxyl layer “healing” of a pre-cracked ceramic. J Dent Res 80: Abstr. No. 45, 185, 41.

61. Barrett AA, Clark AE, Grimaudo NJ, **Anusavice KJ** (2001). Characterization of a self-healing" ceramic in solution after two years exposure. *J Dent Res* 80: Abstr. No. 46, 41.
62. Goetzen N, **Anusavice KJ** (2001). Design optimization of all-ceramic bridges via FEM and CARES. *J Dent Res* 80: Abstr. No. 175, 57.
63. **Anusavice KJ**, Della Bona A, Mecholsky JJr (2001). Fracture behavior of leucite- and Lithia-disilicate-based hot-pressed ceramics. *J Dent Res* 81, Chiba, Japan.
64. Zhang N-Z, **Anusavice KJ** (2001): Effect of fluorine content on microstructure of fluorcanasite glass-ceramics. *J Dent Res* 81, Chiba, Japan.
65. Oh W, Goetzen N, Hoskins D, **Anusavice KJ** (2001). Effect of connector design on fracture resistance of all-ceramic fixed partial dentures. *J Dent Res* 81, Chiba, Japan
66. **Anusavice KJ**, Zhang N-Z (2000): Influence of supporting substrate on fracture mode of fluorcanasite glass-ceramic. *J Dent Res* 78:2548.
67. Antonson SA, Raines CL, Farag JH, **Anusavice KJ** (2000): Characteristics of fractured composite-ceramic specimens produced by shear-tensile and chevron-notch tests. *J Dent Res* 79:Abstr. No. 140, 161.
68. DeHoff PH, **Anusavice KJ**, Goetzen N (2000): Viscoelastic evaluation of the thermal compatibility of an all-ceramic molar crown. *J Dent Res* 79: Abstr. No. 164, 164.
69. **Anusavice KJ** (2000): Influence of artificial saliva composition on corrosion mechanism for fluorcanasite glass-ceramic. *J Dent Res* 79: Abstr. No. 329, 185.
70. Hill TJ, Della Bona A., **Anusavice KJ** (2000). Effect of thermal treatment on crack healing of two dental glass-ceramics. *J Dent Res* 79: Abstr. No. 837, 248.
71. Della Bona A., **Anusavice KJ**, Lee R.B. (2000). Weibull analysis of hot-pressed core and veneered ceramic structures exposed to 37°C water. *J Dent Res* 79: Abstr. No. 839, 248.
72. Della Bona A, **Anusavice KJ**, Shen C (2000). *J Dent Res* 79: Abstr. No. 1107, 282.
73. Farag JH, Antonson SA, **Anusavice KJ** (2000). Interfacial zone fracture patterns for bonded composite-Empress 2 ceramic chevron-notch specimens. *J Dent Res* 79: Abstr. No. 2345, 437.
74. Barrett AA, Clark AE, **Anusavice KJ**, Yang MCK (2000). Using computer monitor images for matching porcelain by hue and value. *J Dent Res* 79: Abstr. No. 3184, 541.
75. **Anusavice KJ**, Zhang N-Z, Moorhead JE, (1999). Chemical durability of fluorcanasite glass-ceramic in artificial saliva under dynamic and static conditions, *J Dent Res* 78: Abstr. No. 44.
76. Griggs JA, **Anusavice KJ**, Mecholsky JJ Jr (1999): Influence of thermal processing on fracture toughness of barium aluminosilicate glass-ceramics. *J Dent Res* 78: Abstr. No. 47.
77. Wakabayashi N, **Anusavice KJ** (1999). Failure mode and fracture resistance of bilayered ceramic disks. *J Dent Res*. 78: Abstr. No. 172.
78. Zhang N-Z, **Anusavice KJ**, Moorhead JE (1999). Influence of supporting substrate on fracture mode for fluorcanasite glass-ceramic. *J Dent Res* 78: Abstr. No. 367.
79. **Anusavice KJ**, Hill TJ, Barrett AA, Moorhead JE (1999). Effect of tempering shoulder porcelain in silicone fluids on flexural strength. *J Dent Res* 78: Abstr. No. 368.
80. Barrett AA, Grimaudo NJ, **Anusavice KJ**, Yang MCK (1999). Influence of tab and disk design on shade matching of dental porcelain, *J Dent Res* 78: Abstr. No. 796.
81. Griggs JA, Anusavice, KJ (1998): Influence of thermal processing on toughness of baria-fluormica glass-ceramics. *J Dent Res* 77: Abst. No. 1288, 266.
82. Tsai YL, **Anusavice KJ** (1998): Influence of support modulus on Hertzian and bulk fracture mechanisms. *J Dent Res* 77: Abst. No. 15, 107.
83. **Anusavice KJ**, Zhang N-Z (1998): Effect of alumina content on crystal structure of fluorcanasite glass-ceramic. *J Dent Res* 77: Abstr. No. 16, 107.

84. Barrett AA, Grimaudo NJ, **Anusavice KJ**, Moorhead JE (1998). Environmental effects on surface structure and strength of "hydrothermal" ceramics. *J Dent Res* 77: Abstr. No. 180.
85. Chen XF, **Anusavice KJ**, Clark AE, Tsai YL (1998). Effect of sol-gel coatings on corrosion resistance of dental glass-ceramics in artificial saliva. *J Dent Res* 77: Abstr. No. 181.
86. **Anusavice KJ** (1998). Does ART have a place in preservative dentistry? *J Dent Res* 77: Abstr. No. 1194, p. 781, Symposium: The State of ART.
87. DeHoff PH, Beck AB, **Anusavice KJ**, Kallem S (1998). Viscoelastic finite element analysis of a three-unit anterior dental bridge. *J Dent Res* 77: Abstr. No. 224, p. 659.
88. **Anusavice KJ** (1998): Chlorhexidine, fluoride varnish, and xylitol chewing gum: underutilized preventive therapies? *Gen Dent* 46(1): 34-38,40.
89. DeHoff PH, **Anusavice KJ** (1997): Viscoelastic finite element deflection analysis of metal-ceramic trimaterial strips. *J Dent Res* 76: Abstr. No. 988, 137.
90. Tsai YL, **Anusavice KJ** (1997): Influence of loading area on Hertzian and bulk fracture mechanisms. *J Dent Res* 76: Abstr. No. 994, 138.
91. **Anusavice KJ**, Zhang N-Z (1997): Chemical durability of fluorcanasite based glass-ceramics. *J Dent Res* 76: Abstr. No. 1443, 194.
92. **Anusavice KJ**, Yang M, Griggs JA, Barrett, AA (1997): Improved color difference equation for predicting observer matching of porcelain shades. *J Dent Res* 76: Abstr. No. 2932, 380.
93. **Anusavice KJ**, Barrett AA, Tsai YL (1997): Effect of single and double ion exchange treatment on the flexure strength of ultra-low fusing dental ceramic. *J Dent Res* 76: Abstr. No. 3246, 419.
94. Nakamura Y, **Anusavice KJ** (1997): Effect of surface roughness on the waybill distribution of porcelain strength. *J Dent Res* 76: Abstr. No. 3248, 419.
95. Griggs JA, **Anusavice KJ** (1997): Influence of thermal processing on crystallization rate in baria-fluormica glass-ceramics. In: H Nakajima, Y Tani, eds. Transactions of the Third International Congress on Dental Materials, Waikiki, Hawaii, November.
96. Lemieux PG, **Anusavice KJ**, Yang MC (1996): Quantitative stereological characterization of voids in resin luting agents. *J Dent Res* 75: Abstr. No. 386.
97. Chan JY, Mecholsky JJ Jr, **Anusavice KJ** (1996): Structural and strength degradation of canasite glass-ceramic at hertzian contacts. *J Dent Res* 75: Abstr. No. 387.
98. Hill TJ, Mecholsky JJ Jr, **Anusavice KJ** (1996): Effect of aspect ratio on toughness and fractal dimension of baria-silicate glass-ceramic. *J Dent Res* 75: Abstr. No. 388.
99. Griggs JA, **Anusavice KJ** (1996): Influence of thermal processing on microstructural coarsening in baria-fluormica glass-ceramic. *J Dent Res* 75: Abstr. No. 389.
100. **Anusavice KJ**, Tsai YL (1996): Effect of glass-ceramic thickness on hertzian and bending stresses during loading. *J Dent Res* 75: Abstr. No. 390.
101. Petsche PE, **Anusavice KJ**, Tsai YL (1996): Influence of glass-ceramic thickness on hertzian and bulk fracture mechanisms. *J Dent Res* 75: Abstr. No. 393.
102. **Anusavice KJ**, Zhang N-Z (1996): Effect of nucleation temperature on toughness and flexure strength of canasite glass-ceramic. *J Dent Res* 75: Abstr. No. 395.
103. DeHoff PH, **Anusavice KJ**, Hojjatie B, Parameshwaran BK (1996): Visco-elastic deflection analysis of metal-ceramic bimaterial strips. *J Dent Res* 75: Abstr. No. 864.
104. **Anusavice KJ**, Tsai YL (1996): Variability in biaxial and three-point flexure strength of dental porcelain. *J Dent Res* 75: Abstr. No. 865.
105. Barrett, AA, **Anusavice KJ**, Moorhead, JE (1996): Sensitivity of CIELAB parameters on color matching of porcelain discs. *J Dent Res* 75: Abstr. No. 1040.
106. DeFreest CF, Shen C, **Anusavice KJ** (1995): Effect of coating on biaxial strength of

- leucite-reinforced porcelain. *J Dent Res* 74: Abstr. No. 216, 38.
107. Savett DA, Shen C, **Anusavice KJ** (1995): Dynamic contact analysis of three dental restorative materials. *J Dent Res* 74: Abstr. No. 624, 89.
 108. **Anusavice KJ**, Zhang N-Z (1995): Effect of crystallinity on strength and fracture toughness of lithia-based glass-ceramics. *J Dent Res* 74: Abstr. No. 1656, 218.
 109. Hill T, **Anusavice KJ**, Mecholsky JJ (1995): Fracture toughness and fractal dimension versus crystallization for baria-silicate glass-ceramic. *J Dent Res* 74: Abstr. No. 1657, 219.
 110. Griggs JA, Thompson JY, **Anusavice KJ** (1995): Effect of Flaw Size and Auto-glaze Treatment on Porcelain Strength (1995). *J Dent Res* 74: Abstr. No. 1658, 219.
 111. Thompson JY, Mecholsky JJr, **Anusavice KJ** (1995): Microcrack influence on fracture toughness and fractal dimension of lithia-based glass-ceramics. *J Dent Res* 74: Abstr. No. 1659, 219.
 112. **Anusavice KJ**, Barrett AA (1995): Color/Shade matching performance of dental students and faculty dentists. *J Dent Res* 74: Abstr. No. 1788, 235.
 113. **Anusavice KJ**, Nakamura Y (1995): Distortion of thermally incompatible metal-ceramic with overextended margins. *J Dent Res* 74: Abstr. No. 969
 114. **Anusavice KJ**, Zhang N-Z (1995): Crystal structure and mechanical properties of lithium-based glass-ceramics; *J Dent Res* 74: Abstr. No. 971
 115. Hill TJ, **Anusavice KJ** (1994): Contrast ratio vs. thickness for dicor and lithia-based glass ceramics. *J Dent Res* 73:136, Abst. No. 274.
 116. Phoenix RD, Shen C, **Anusavice KJ** (1994): Characterization of treated porcelain surfaces *via* dynamic contact angle analysis. *J Dent Res* 73:191, Abst. No. 716.
 117. **Anusavice KJ**, Zhang N-Z (1994): Chemical durability of Dicor® and lithia-based glass-ceramics. *J Dent Res* 73:196, Abst. No. 753.
 118. Parsell D, **Anusavice KJ** (1994): Generation of optimum glass-ceramic heat-treatment schedules. *J Dent Res* 73:196, Abst. No. 754.
 119. Naman N, **Anusavice KJ**, and Mecholsky, JJr (1994): Fractal analysis of lithia-based glass-ceramics. *J Dent Res* 73:196, Abst. No. 755.
 120. Thompson JY, **Anusavice KJ**, Morris H (1994): Characterization of fracture surfaces of dental ceramics. *J Dent Res* 73:196, Abst. No. 757.
 121. Griggs JA, Shen C, **Anusavice KJ** (1994): Sensitivity of catalyst/base ratio on polymerization exotherm of resin cements. *J Dent Res* 73:229, Abst. No. 1019.
 122. **Anusavice KJ** (1994): restorative decision-making in the 1990s. *J Dent Res* 73:366, Abst. No. 2117. Presented at symposium, "Restorative Dentistry in the 1990s and Beyond," sponsored by the Canadian Association of Dental Research, AADR, and AADS.
 123. DeHoff PH, Vontvillu SB, **Anusavice KJ**, Wang Z (1994): Viscoelastic analysis of PFM crowns using finite element methods. *J Dent Res* 73:369, Abst. No. 2141.
 124. **Anusavice KJ**, Zhang N-Z, Moorhead JE (1993): Influence of colorants on crystallization and properties of lithia-based glass-ceramics. *J Dent Res* 72:380, Abst. No. 1271.
 125. **Anusavice KJ**, Zhang N-Z, Moorhead JE (1993): Influence of metals and metal compounds on color of lithia-based glass-ceramics. *J Dent Res* 72:380, Abst. No. 2213.
 126. Hojjatie B, **Anusavice KJ**, Hsiao LL (1992): Effect of abrasion on strength of thermally tempered dental ceramics. *J Dent Res* 71: 208, Abst. No. 817.
 127. **Anusavice KJ**, Hojjatie B, Chang T-C (1992): Effect of grinding and etching on strength of ion-exchanged porcelain. *J Dent Res* 71: 238, Abst. No. 1063.
 128. DeHoff PH, Saravanan PA, and **Anusavice KJ** (1992): Viscoelastic analysis of porcelain-metal discs. *J Dent Res* 71: 238, Abst. No. 1062.

129. **Anusavice KJ**, DeHoff PH, Hojjatie B (1992): Incompatibility analysis of pfm systems using dilatometric and beam-bending data. *J Dent Res* 71: 567, Abst. No. 417.
130. DeHoff PH, Zang Z, **Anusavice KJ** (1992): comparative evaluation of thermal compatibility models using viscoelastic theory. *J Dent Res* 71: 567, Abst. No. 418.
131. **Anusavice KJ**, Hu S, and Hojjatie B (1991): Tensile stress in glass-ceramic crowns: effect of flaws and cement voids. *J Dent Res* 70:210, Abst No. 816.
132. **Anusavice KJ** (1991): Enhancing the longevity of dental restorations. *J Dent Res* 70:210, Abst No. 1479.
133. DeHoff PH, **Anusavice KJ** (1991): Analysis of tempering stresses in metal-porcelain discs. *J Dent Res* 70: 456, Abst No. 1521.
134. Hojjatie B and **Anusavice KJ** (1991): Thermal stress analysis of tempered dental ceramics. *J Dent Res* 70: 484, Abst. No. 1743.
135. Vermost B, **Anusavice KJ**, Shen C, Chow B (1991): Strengthening of porcelain by ion exchange subsequent to thermal tempering. *J Dent Res* 70: 484, Abst. No. 1744.
136. **Anusavice KJ**, Mjör IA (1991): response to patients who inquire about the safety of dental amalgam, *Quintessence Int* 22(4):249-250.
137. DeHoff PH, **Anusavice KJ** (1990): Analysis of tempering stresses in bilayered porcelain discs. *J Dent Res* 69:210, Abst No. 815.
138. **Anusavice KJ**, Shen C, Gray A, and Lee RB (1990): Strengthening of feldspathic porcelain by ion exchange and tempering. *J Dent Res* 69:210, Abst No. 816.
139. **Anusavice KJ** (1989): Influence of composition on performance of restorative materials: a fifty-year perspective. *J Dent Res* 68:174, Abst. No. S 1.
140. **Anusavice KJ**, Shen C, Hickey T, Ban S (1989): Shear strength and fracture characteristics of repaired metal-ceramic substrates. *J Dent Res* 68:271, Abst. No. 722.
141. DeHoff PH, **Anusavice KJ**, Evans J, Ellis E (1989): Effectiveness of cast-joined Ni-Cr-Be structures. *J Dent Res* 68:303, Abst. No. 976.
142. **Anusavice KJ**, Hojjatie B, Gray A (1989): Inhibition of crack propagation in tempered porcelain surfaces. *J Dent Res* 68:324, Abst. No. 1137.
143. Hojjatie B, **Anusavice KJ**, Lee RB, Gray A (1989): Influence of tempering methods on transient incompatibility stresses in ceramics. *J Dent Res* 68:324, Abst. No. 1138.
144. **Anusavice KJ**, Gray A, Shen C (1989): Crack growth in air-tempered porcelain: influence of initial flaw size, *J Dent Res* 68: 959, Abst. No. 743.
145. Hojjatie B, **Anusavice KJ** (1989): Tempering of bilayered discs in liquids from various initial temperatures, *J Dent Res* 68: 960, Abst. No. 744.
146. DeHoff PH, **Anusavice KJ** (1989): incompatibility stress development in metal-ceramic systems. *J Dent Res* 68: 960, Abst. No. 745.
147. **Anusavice KJ**, DeHoff PH, Hojjatie B, Gray A (1988): Influence of tempering, contraction mismatch on crack growth in ceramic surfaces. *J Dent Res*, 67: Abst. No. 1213, Montreal, Canada.
148. DeHoff PH, **Anusavice KJ** (1988): Effect of viscoelastic behavior on stress development in a pfm system. *J Dent Res* 67: Abst. No. 1210, Montreal, Canada.
149. Hojjatie B, **Anusavice KJ** (1988): Determinants of tensile stress in castable ceramic crowns. *J Dent Res* 67: Abst. No. 1589, Montreal, Canada.
150. Söderholm K-J, Roberts MJ, Antonson D, **Anusavice KJ**, Mauderli AP, Sarrett D, Warren J (1988): A comparison of wear ratings and profilometer determinations. *J Dent Res* 67: Abst. No. 2137.
151. DeHoff PH, **Anusavice KJ** (1987): Fictive temperature distribution in a porcelain plate, *J Dent. Res*, 66: Abst. No. 1303, Chicago, Illinois.
152. **Anusavice KJ**, Gray A (1987): Causes of porcelain checking in pfm fixed partial dentures, *J Dent Res*, 66: Abst. No. 1310, Chicago, Illinois.

153. Coffey JP, **Anusavice KJ**, DeHoff PH, Lee RB (1987): Flexural failure of metal-ceramic systems: influence of thermal contraction differences, *J Dent Res*, 66: Abst. No. 1497, Chicago, Illinois.
154. **Anusavice KJ**, Hojjatie B (1987): Influence of prepared tooth height on stress distribution in ceramic crowns. *J Dent Res*, 66: Abst. No. 780, Chicago, Illinois.
155. DeHoff PH, **Anusavice KJ**. (1986): Viscoelastic analysis of the porcelainized semicircular arch. *J Dent Res*, 65: Abst. No. 335 The Hague, The Netherlands
156. DeHoff PH, **Anusavice KJ** (1986): Influence of geometry on incompatibility in metal-ceramic systems, *J Dent Res*, 65: Abst. No. 433, Washington, D.C.
157. **Anusavice KJ**, Kincheloe JE. (1986): Comparison of pain associated with mechanical and chemomechanical removal of caries, *J Dent Res*, 65: Abst. No. 172, The Hague, The Netherlands
158. **Anusavice KJ**, Hojjatie B (1986): Stress distribution in metal-ceramic crowns with a facial porcelain margin. *J Dent Res*, 65: Abst. No. 222, Washington, D.C.
159. **Anusavice KJ**, DeHoff PH, Gray A, Lee RB (1986): Delayed crack propagation due to incompatibility stress, *J Dent Res*, 65: Abst. No. 1568, Washington, D.C.
160. **Anusavice KJ**, Carroll JE (1986): Effect of incompatibility stress on the fit of pfm crowns, *J Dent Res*, 65: Abst. No. 434, Washington, D.C.

Reviews

Anusavice, KJ (1978): Book Review, *Dental Materials Review*, Edited by RC Craig, Ph.D., Ann Arbor, 1977, The University of Michigan. *J Prosthet Dent*, 39(1):118.

Miscellaneous

Anusavice KJ (1970). Tracer diffusion behavior and interdiffusion in copper-rich Cu-Ni-Zn alloys, Ph.D. dissertation, University of Florida, Gainesville.

CONTRACTS AND GRANTS (Since 2003)

a. Funded Externally

External Contracts and Grants as Principal Investigator since FY 2003 (Approximately [REDACTED] in total external grant support since 1983)

FY 2003-2004		
Direct Costs	Indirect Costs	Total Funding
NIH/NIDCR Grant No. 5R01DE13412-03, Controlled-Release Sealant to Prevent Secondary Caries		
\$202,500	\$ 91,125	\$293,625
NIH/NIDCR Grant No. 5R37DE06672-21, Optimized Stress States in Ceramic-Based Restorations		
\$195,892	\$ 87,172	\$283,064

Ivoclar North America-Testing of Dental Ceramics

Total Funding for FY 2003-2004		
FY2004-2005		
Direct Costs	Indirect Costs	Total Funding
NIH/NIDCR Grant No. 5R01DE13412-04, Controlled-Release Sealant to Prevent Secondary Caries		
\$202,500	\$ 92,138	\$294,638
NIH/NIDCR Grant No. DE06672-22, Optimized Stress States in Ceramic-Based Restorations		
No-cost extension		
Total Funding for FY 2004-2005		
FY2005-2006		
Direct Costs	Indirect Costs	Total Funding
NIH/NIDCR Grant No. 5R01 DE06672-22A1, Ceramic Prosthesis Survival Based on CARES/Life Analysis		
\$242,500	\$ 107,027	\$349,527
Total Funding for FY 2005-2006		\$349,527
FY 2006-2007		
NIH/NIDCR Grant No. 5R01 DE06672-23, Ceramic Prosthesis Survival Based on CARES/Life Analysis		
\$236,801	\$94,600	\$331,401
Total Funding for FY 2006-2007		\$331,401
FY2007-2008		
NIH/NIDCR Grant No.5R01 DE06672-24, Ceramic Prosthesis Survival Based on CARES/Life Analysis		
\$229,934	\$92,694	\$322,628
Total Funding for FY 2007-2008		\$322,628
FY2008-2009		
NIH/NIDCR Grant No. 5R01DE06672-25, Ceramic Prosthesis Survival Based on CARES/Life Analysis		
		\$318,871
Total Funding for FY 2008-2009		\$318,871
FY2009-2010		
NIH/NIDCR Grant No. 2R01DE06672-26A1, Translational Basic-Clinical Analysis of Implant-Borne Ceramic Bridge Survival		
		\$376,111
Total Funding for FY 2009-2010		\$376,111

LECTURES, SPEECHES OR POSTERS PRESENTED AT PROFESSIONAL MEETINGS

2007

- "Keys to Successful Ceramic Crown and Bridge Prostheses: Lessons Learned from Clinical Failures", American Dental Association, Las Vegas, Nevada, October 17, 2007.
- "Can Clinical Failures and Survival Statistics for Ceramic-based Prostheses Be Predicted Reliably from *in vitro* Tests?", Keynote Address, IADR 85th General Session & Exhibition, New Orleans, LA, March 23, 2007.
- "Keys to Successful Ceramic Crown and Bridge Prostheses: Lessons Learned from Clinical Failures", UFCD Walt Disney World, Orlando, FL, March 31, 2007.
- "Closing the Gaps between Basic Research, Clinical Research, and Clinical Practice," Keynote Address, Dental Science Symposium, University of Texas at San Antonio Dental School, April 18, 2007.
- "Modern Caries Management for Geriatric and Other Adult Special Needs Patients," The Steve Gordan Lecture, 19th Annual Meeting on Special Care Dentistry, The Aging of Special Needs Populations: Advancing Access, Advocacy, Education and Clinical Care," Denver, CO, May 4, 2007.
- "Reducing the Risk for Crown and Bridge Failures", University of Florida CE Course, Orlando, FL, August 25, 2007.
- "Benefits and Risks of Ceramic-Based Crown and Bridge Prostheses, Food and Drug Administration, Bethesda, MD, September 12, 2007.
- "Factors Affecting the Survival of Ceramic Prostheses", Stuart Isler CE Course, Whippany, NJ, November 7, 2007.
- "Quality Evaluation of ceramic-Based Prostheses", 70th Annual Winter Clinic, Toronto Academy of Dentistry, Toronto, Canada, November 9, 2007.

2006

- "Advances in Crown and Bridge Research," Fort Gordon Dental Program, Augusta, Georgia, January 19, 2006.
- "Dental Ceramics-Scientific and Clinical Approaches", 42nd Encontro do Grupo Brasileiro de Materiais Dentarios, Uberlandia, Brazil, July 25, 2006.

2005

- "Quality Evaluation of Crown and Bridge Prosthesis: A Hands-on Lab", Tomoka Flagler Dental Association, Daytona Beach, January 14, 2005
- "Modern Treatment of Caries as an Infectious Disease" (Tratamento moderno da cárie como doença infecciosa"), "Criteria for Placement and Replacement of Dental Restorations" ("Critério para instalação troca de restaurações"), and "The Future of Dentistry" ("O futuro da Odontologia"), XVI Encontro do GBPD (Brazilian Dentistry Teachers Group, 16th Meeting), Rio de Janeiro, Brazil, January 17, 2005.
- "Reducing the Failure Risk of Ceramic Based Prostheses", "Criteria for Placement and Replacement of Dental Restorations", "Modern Dental Ceramics", 23rd International Dental Meeting (23rd Congresso Internacional de Odontologia de Sao Paolo), Sao Paolo, Brazil, January 23, 2005.
- "Meet the Professor", a half-day session with graduate students, 23rd International Dental Meeting (23rd Congresso Internacional de Odontologia de Sao Paolo), Sao Paolo, Brazil, January 24, 2005.
- "Modern Dental Ceramics" (lecture), "Reducing the Risk for Failure of Ceramic-based Prostheses" (lecture), and "Quality Control of Crown and Bridge Prostheses" (laboratory

session), Comprehensive Dentistry Program, University of Florida, Gainesville, February 19, 2005.

- "The Impact of Science on Clinical Decision Making," presented at the GC R&D Conference, "Advances in Remineralization Technology," Cambridge, MD, March 13, 2005.
- "Present and Future Approaches for the Control of Caries," IADR symposium for private practitioners, March 12, 2005, Baltimore, MD.
- "Update in Crown and Bridge Materials," Sarasota Dental Society, April 14, 2005.
- "Current Concepts in Modern Caries Management", Atlanta Dental Study Club. September 13, 2005.
- "Dental Biomaterials: Principles and Applications," University of Sao Paulo, Brazil, September 20, 2005.
- "Tests of Material Properties: Can They Be Useful for Predicting Clinical Performance?," Academy of Dental Materials Symposium, Lake Louise, Canada, November 3, 2005.
- "Modern Management of Caries", "Recent Developments in Dental Biomaterials," Lutheran Medical Center Symposium, Maui, Hawaii, November 19, 2005.

2004

- "Reducing the Risk for Failure of Ceramic-Based Prostheses", UAB, Birmingham, AL, February 6, 2004.
- "Advances in Dental Ceramics and Other Restorative Materials", Georgia Dental Society , Orlando, FL, June 19, 2004.
- "Modern Management of Caries as an Infectious Disease", Mid-Florida Study Club, Winter Park, FL, June 29, 2004.
- "Present and Future Approaches for the Control of Caries, The Fifth Washington Dental Service Foundation Distinguished Professor Dentistry Symposium, Clinical Practice and Future Trends, University of Washington, Seattle, November 5, 2004.

2003

- "Caries Risk Assessment for Optimal Treatment", Keynote address at Research Day, Indiana University School of Dentistry, Indianapolis, IN, April 23, 2003.
- "Clinical Research in Biomaterials," Dental Informatics & Dental Research, Making the Connection, June 12, 2003, NIH/NIDCR, Bethesda, MD.
- "New Dental Materials for Fixed Prosthodontics," International College of Prosthodontics, Halifax, Nova Scotia, July 12, 2003.
- "Modern Management of Caries as an Infectious Disease," Second District Dental Society of Montgomery, Alabama, November 14, 2003.
- "All-Ceramic Prostheses: Are They Worth the Risks?," Second District Dental Society of Montgomery, Alabama, November 14, 2003.
- "The Metal-Ceramic Bond: Analysis of Problems and Solutions," 22nd International Congress, Controversies in Prosthodontics, Bologna, Italy, November 21, 2003.

2002

- Caries: An Infectious Disease," 27th Annual Yankee Dental Congress, 5-hour course, Boston, MA, February, 2, 2002.
- "Reducing the Risk for Prosthesis Failure through Engineering Design," Best and Worst of Ceramics and Metal-Ceramics," "Selection of Dental Materials: Can You Trust the Manufacturers' Ads?," 6-hour course, Peterson Air Force Base Dental Laboratory Symposium, Colorado Springs, CO, February 18, 2002.
- "Clinical Decision-Making for Management of Dental Caries," 1-hour lecture, University of Western Ontario, London, Ontario, Canada, February 19, 2002.

- "Caries Management for Elderly U.S. Patients: Risk Assessment and Treatment Solutions," Colgate-Palmolive Co., Piscataway, NJ, May 21, 2002.
- "Is Amalgam Still Useful for Private Practice?," National Board of Dental Examiners, New Orleans, LA, October 18, 2002.

2001

- "Caries management for dental educators," ADEA Meeting, Chicago, IL, March 6, 2001.
- "Modern management of caries as an infectious disease," 6-hr course, Waukesha Dental Society, Milwaukee, Wisconsin, March 16, 2001.
- "Management of Caries" and "Optimum use of esthetic dental materials," 6-hour CE course, West Coast Dental Society, Tampa, FL, March 23, 2001.
- "Modern Management of Caries as an Infectious Disease," 2.5-hour lecture, Milwaukee Dental Forum, November 8, 2001.
- "Modern Management of Caries as an Infectious Disease," "Reducing the Risk for Prosthesis Failure through Engineering Design," "Are Ceramic-Based Restorations Worth the Risks?," "Can Manufacturers' Ads Help in the Selection of the Best Preventive and Restorative Products?," 6-hour course, Detroit Dental Society, November 17, 2001.
- "Caries management for dental educators, ADEA meeting, Joint meeting of Operative Dentistry and Biomaterials sections, Chicago, IL, March 6, 2001

2000

- "Management of Caries as an Infectious Disease," "Selection of Dental Materials for Clinical Practice: Can You Trust the Manufacturers' Ads?," Annual Meeting of American College of Dentists, Rockport Maine, June 30, 2000.
- "Risk Assessment," presented at international symposium, "Cariious Lesions, Management Alternatives, Medical University of South Carolina, Charleston, SC, September 15, 2000.
- "Less Abrasive Ceramic Materials," University of Indiana Symposium, June 12, 2000.

1999

- "Consumer's Guide to Selection and Use of Preservative, Preventive, and Restorative Materials", 6 hours, Greater Houston Dental Meeting, February 18-19, 1999.
- "Modern Management of Dental Caries as an Infectious Disease, MetLife Dental Advisory Council Meeting, Carmel, CA, March 19, 1999.
- "Modern Management of Caries", Alliance for Best Clinical Practices in Dentistry, Washington, DC, May 17-18, 1999.
- "Need for Early Detection of Caries: A US Perspective, Indiana symposium on early caries detection, May 20, 1999.
- "Treatment Decision Support Systems for Management of Primary and Secondary Caries," NIDCR Symposium, Scientific Frontiers in Dentistry, Bethesda, MD, June 3, 1999.

1998

- "Optimum Caries Prevention and Remineralization," Yankee Dental Congress, Boston, MA, January 16, 1998.
- "Materials for Clinical Practice", Yankee Dental Congress, Boston, MA, January 16, 1998.
- "Materials of the Future: Preservative or Restorative", The Buonocore Memorial Lecture, Annual Meeting of the Academy of Operative Dentistry, Chicago, IL, February 19, 1998.
- "Evidence-based Guidelines for Restoration Replacement", presented at the symposium, "Changing Concepts in Operative Dentistry and Their Impact on Treatment Decisions", Operative Dentistry Section Program, American Association of Dental Schools, Minneapolis, MN, March 1, 1998.

- "Quality of Dental Restorations: Rationale for Placement, Replacement, and Repair", University of Manitoba, Winnipeg, Manitoba, March 21, 1998.
- "A Modern Approach to Preventive and Restorative Dentistry", University of Manitoba, Winnipeg, Manitoba, March 21, 1998.
- "A Consumer's Guide to the Selection and Use of Dental Materials", University of Manitoba, Winnipeg, Manitoba, March 21, 1998.
- "Challenges to the Development of Novel materials in an Academic Research Center", New Jersey Medical and Dental University, Newark, NJ, April 7, 1998.
- "The Future of Biomaterials, Biomimetics, and Tissue Engineering," The Birnberg Lecture, Columbia University, New York, NY, April 30, 1998.
- "Management of Dental Caries as a Chronic Infectious Disease", presented at the Symposium, "Frontiers in Clinical Dentistry: Caries and Periodontal Disease", The Third Washington Dental Service Foundation Distinguished Professorship Symposium, Seattle, WA, May 21, 1998.
- "Does ART have a role in preservative dentistry?" IADR Symposium, The State of ART (Atraumatic Restorative Treatment), June 1998, Nice, France
- "Advances in Dental Ceramics", Niigata University, December 17, 1998
- "Development of Novel Biomaterials", Tokyo Medical and Dental Institute, Tokyo, Japan, December 19, 1998.
- "Preservative Dentistry" and "Ceramics and Metal-Ceramics", Kadena Air Force Base, Okinawa, Japan, December 21, 1998.

1997

- "Nonsurgical Management of the Initial Caries Lesion", IADR Symposium, Practical Evidence-based Management of the Initial Caries Lesion. March 22, 1997, Orlando, Florida.
- "Hertzian and Bulk Fractures As a Function of Ceramic Crown Thickness, Elastic Modulus, and Loading Area", International Opinion Leader Symposium, Schaan, Liechtenstein, April 17-20, 1997.
- "How Will We Restore Children's Teeth 50 Years from Now?" American Academy of Pediatric Dentistry, Philadelphia, Pennsylvania, May 22, 1997.
- "Preventive Potential of Restorative Materials", International Health Care Foundation", London, England, October 31, 1997.
- "21st Century Treatment Regimens for Preventive and Restorative Dentistry", The Eighth Annual Holiday Dental Conference, Charlotte, NC, December 5, 1997.
- "Consumers' Guide to the Selection of Dental Materials", Eighth Annual Holiday Dental Conference, Charlotte, NC, December 6, 1997.
- "The Best and Worst of Dental Ceramics", Eighth Annual Holiday Dental Conference, Charlotte, NC, December 6, 1997.
- "The Clinical Acceptability of Ready to Deliver Restorations", Eighth Annual Holiday Dental Conference, Charlotte, NC, December 5-7, 1997.

1996

- "Myths in Restorative Dentistry," "Metal-ceramics and Ceramics for the 21st Century," and "Preventive and Restorative Treatment Regimens," Lord's Dental Laboratory Invited Speaker Series, Green Bay, Wisconsin, January 25-26, 1996.
- "Best and Worst of Ceramics and Metal-Ceramics" and "Consumer's Guide to the Selection and Use of Dental Materials," Medical College of Georgia School of Dentistry, Ravinia, Georgia, February 10, 1996.
- "Breaking from Tradition: Guidelines for Optimum Preventive and Restorative Care," Scientific Frontiers in Clinical Dentistry, National Institute for Dental Research, Bethesda, MD, June 12, 1996.

- "Guidelines for Risk Assessment and Optimum Caries Management," University of Washington College of Dentistry, Seattle, Washington, July 18, 1996.
- "Advances in Preventive and Restorative Materials and Techniques," Northwest District Dental Society, Destin, Florida, August 10, 1996.
- "Caries-Prevention Aspects of Dental Materials" and "Guidelines for Risk Assessment and Management of Caries," 1996 Meeting of Indian Dental Health Service, Albuquerque, New Mexico, September 12, 1996.
- "Guidelines for Optimum Preventive and Restorative Regimens," Suwanee Valley Dental Society, October 1, 1996, Bell, Florida.
- "Development of Novel Materials in a University Research Center," Annual Meeting of the Academy of Dental Materials, Munich, Germany, October 30, 1996.
- "Evidence-based Design of Crown and Bridge Prostheses," University of Florida College of Dentistry, Gainesville, Florida, December 12, 1996.

1995

- "The Florida Conference: Seven Years Later," Operative Dentistry Section, AADS, San Antonio, TX, March 13, 1995.
- "A Postmodern Approach to Preventive and Restorative Therapy in the 21st Century," presented at the conference on Your Future Dental Practice: Implications and Applications of Current Research, Columbia University School of Dental and Oral Surgery and the Department of Dentistry of Morristown Memorial Hospital, New York, NY, April 1, 1995.
- "A Futuristic Outlook on Preventive and Restorative Dentistry," presented to junior class, Baylor College of Dentistry, Dallas, TX, May 18, 1995.
- "Clinical Decision-Making for the 21st Century," Distinguished Scientist Lecture, Baylor College of Dentistry, Dallas, TX, May 19, 1995.
- "Clinical Performance of Ceramics," keynote address to program project team at University of Maryland (Grant of Dr. Dianne Rekow), June, 1995.
- "Metal-Ceramics and Ceramics for the 21st Century," Keynote address, presented at the Third International Symposium on Titanium in Dentistry, Leura, New South Wales, Australia, August 31, 1995.
- "Benefits and Risks of Dental Ceramics," First International Symposium on Dental Materials and Devices, Kyoto, Japan, October 28, 1995.
- "Modern Dental Materials: Can you Trust the Manufacturers' Ads?" American College of Prosthodontists, Washington, DC, October 29, 1995 "Ceramics and Metal-Ceramics," Aichi-Gakuin University, Nagoya, Japan, November 6, 1995
- "Preventive and Restorative Treatment Regimens," Tsurumi University, Yokohama, Japan, November 7, 1995.

1994

- "Treatment Decisions in Restorative Dentistry." NIH Conference, Scientific Frontiers in Clinical Dentistry, Seattle, Washington, March 11, 1994.
- "Standardizing Preventive and Restorative Decisions." Presented to the Kaiser Permanente Dental Group, Portland, Oregon, March 14, 1994.
- "Decision-Making Strategies for Optimum Treatment." Presented at Annual Meeting of the Ontario Dental Association, Toronto, Canada, April 21, 1994.
- "Crown and Bridge Ceramics, Metal-Ceramics, and Polymers in the 90s." Presented at Annual Meeting of the Ontario Dental Association, Toronto, Canada, April 21, 1994.
- Noble Alloys for PFM Systems," "Preventive Dentistry for the 21st Century"; and "Laboratory on Standardization of Restoration Quality," Comprehensive Dentistry, University of

Florida, April 15 and 16, 1994.

"Use of Decision Analysis in Restorative Dentistry to Minimize the Risk of Over-treatment and Under-treatment." Keynote address presented at the 38th Canadian Dental Association Teaching Conference, Dental Clinical Epidemiology and Decision-Making, Toronto, Canada, October 13, 1994.

"Certainties and Uncertainties in the Use of Decision Trees." 38th Canadian Dental Association Teaching Conference, Dental Clinical Epidemiology and Decision-Making, Toronto, Canada, October 14, 1994.

Maynard K. Hine Scholarship Lecture, Indiana University School of Dentistry, Indianapolis, Indiana, March 4, 1995.

"Use of Decision Analysis in Restorative Dentistry to Minimize the Risk of Over-treatment and Under-treatment". Presented at the 38th Canadian Dental Association Teaching Conference, Dental Clinical Epidemiology and Decision-Making, Toronto, Canada, October 13, 1994.

"Metal-Ceramics and Ceramics for the 21st Century," The Third International Symposium on Titanium in Dentistry, Leura, New South Wales, Australia, August 31, 1995.

"Use of Decision Analysis in Restorative Dentistry to Minimize the Risk of Over-treatment and Under-treatment." Keynote address presented at the 38th Canadian Dental Association Teaching Conference, Dental Clinical Epidemiology and Decision-Making, Toronto, Canada, October 13, 1994.

1993

"Prosthodontics in the 90s," Annual Meeting, Dental Services Group, Scottsdale, Arizona, January 8, 1993.

"Minimizing the Risk of Restoration Failure," Annual Meeting, Dental Services Group, Scottsdale, Arizona, January 8, 1993.

"Recent Advances and Disappointments in Dental Materials," Miami Midwinter Meeting, Miami, Florida, January 28, 1993.

"Criteria for Placement, Replacement, and Repair of Dental Restorations," Miami Midwinter Meeting, Miami, Florida, January 29, 1993.

"Clinical Decision-Making in Restorative Dentistry." NIH Conference, Scientific Frontiers in Clinical Dentistry, April 15-16, 1993, National Institutes of Health, Bethesda, MD.

"Advances in Ceramics and Dental Ceramics," Baylor College of Dentistry, Dallas, TX, December 8, 1993.

1992

"Clinical Dental Materials for Operative Dentistry," Northeast District Dental Hygienist's Society, Jacksonville, FL, January 9, 1992.

"A Consumer's Guide to Materials and Design for Fixed Prosthodontic Applications," Western Pennsylvania Prosthodontic Society, University of Pittsburgh, Pittsburgh, Pennsylvania, May, 5-7, 1992.

"Clinical Decision Making in Dentistry," University of Washington and Washington Dental Service Foundation Symposium, Seattle, Washington, June 18-19, 1992.

Chairman, ADA Workshop on Handpieces and Other Instruments in Dentistry Council on Dental Materials, Instruments and Equipment, Chicago, Illinois, August 27, 1992.

"Criteria for Placement, Replacement, and Repair of Dental Restorations," Dental Branch, University of Texas, Houston, Texas, September 10, 1992.

"New Ceramics for Inlays, Onlays, and Crowns," Dental Branch, University of Texas, Houston, Texas, September 11, 1992.

"Decision Making in Restorative Dentistry," University of Florida, September 15, 1992.

"Future Role of Dental Manufacturers," Future of Dentistry Conferences, 3-M Dental Products

Division, Minneapolis, Minnesota, September 16-20, 1992.

"Minimizing Failures and Maximizing Success with Metal-Ceramic Restorations," Symposium sponsored by University of Texas Health Center at San Antonio in Las Vegas, Nevada, September 25, 1992.

"The NIH-Supported Training Grant Program in Dental Biomaterials at the University of Florida," Biomaterials Section, American Association of Dental Schools, Lake Buena Vista, Florida, October 15, 1992.

"An Update in Ceramics," Annual Meeting of the Academy of Dental Materials, Lake Buena Vista, Florida, October 15, 1992.

"Base Metal Alloys for Dental Restorations," Medical College of Georgia, October 22, 1992.

"Longevity and Causes of Failure of Dental Restorations," Medical College of Georgia, October 22, 1992.

"Criteria for Placement and Replacement of Dental Restorations," Spokane, Washington, October 29, 1992 and Seattle, Washington, on October 30, 1992. These one-day courses were co-sponsored by the Washington Dental Service Foundation and the University of Washington.

1991

"Recent Advances and Disappointments in Restorative Materials," West Coast Dental Society's 69th Annual Winter Meeting, St. Petersburg, FL, January 26, 1991.

"Recent Developments in Restorative Materials," Clay County Dental Society Meeting, Orange Park, FL, February 6, 1991.

"Dental Ceramics," Presented in the Course, "Introduction to Ceramic Engineering Design," University of Florida, Gainesville, FL, February 26, 1991.

"Recent Advances in Dental Biomaterials," Presented at the Annual Meeting of the Surface Science Center, University Centre Hotel, Gainesville, FL, February 28, 1991.

"Update in Dental Ceramics" and "Amalgam Controversy." University of Florida, College of Dentistry, Gainesville, Florida, March 1-2, 1991.

"Criteria for Placement and Replacement of Dental Restorations," New York Academy of Dentistry, New York City, March 14, 1991.

"Enhancing the Longevity of Dental Restorations," Acapulco IADR Science Transfer Seminar, Acapulco, Mexico, April 20, 1991.

"Porcelain and Castable Ceramic Restorations: Options and Expectations," Oregon Health Science University, Portland Oregon, May 2-4, 1991.

"Is Amalgam Still Safe?" Annual Meeting of America Academy of Cosmetic Dentistry, New Orleans, Louisiana, May, 1991.

"Are Amalgams Still Safe?," West Coast Dental Association, St. Petersburg, Florida, May 17, 1991.

"Reducing the Risk of PFM Failures," West Coast Dental Association, St. Petersburg, Florida, May 17, 1991.

"Advances in the Design of PFM Restorations," 10th International Symposium on Ceramics, Quintessence Publishing Co., New Orleans, Louisiana, June 1, 1991.

"Dental Materials," Florida Dental Lab Association, University of Florida, Gainesville, Florida, July 13, 1991.

"Effects and Side Effects of Dental Restorative Materials," Technology Assessment Conference, Bethesda, Maryland, August 26, 1991.

"Recent Dental Materials," Suwannee Study Club, Newberry, Florida, September 3, 1991.

"Base Metal Alloys and Longevity of Dental Restorations," Medical College of Georgia, Augusta, Georgia, October 9, 1991.

"What is the Status of Ceramics as Esthetic Materials?" Esthetic Restorative Materials Symposium, Chicago, Illinois, November 12, 1991.

- "Recent Advances in Restorative Materials," Jacksonville Dental Society, Jacksonville, FL, November 21, 1991.
- "Ceramic and Metal-Ceramic Restorations: A Consumer's Guide to Success," Greater New York Academy of Prosthodontics, New York, New York, December 6, 1991.

1990

- "Dental Ceramics: Causes of Failed Restorations," Citrus County Dental Society, Inverness, Florida, July, 1990.
- "Criteria for Placement and Replacement of Dental Restorations," Comprehensive Dentistry Program, University of Florida, July, 1990.
- "Design and Longevity of Prosthodontic Structures," Fourth International Congress, Mexican Academy of Prosthodontics, Acapulco, September 2-4, 1990.
- "Recent Advances in Dental Ceramics," Fourth International Dental Seminar, The Nippon Dental University, Niigata, Japan, September 23, 1990.
- "Application of High Technology to Crown and Bridge Prosthodontics," Aichi-Gakuin Society of Dental Science, Nagoya, Aichi-Gakuin University, Japan, September 25, 1990.
- "Successes and Failures of Recent Dental Ceramics," Kyoto Medical and Dental University, Kyoto, Japan, September 27, 1990.
- "Restoration Failure: Operator vs. Material," Medical College of Georgia, Augusta, Georgia, October 9, 1990.
- "Application of Engineering Technology to the Design of Fixed Prosthodontic Restorations," University of California, San Francisco, California, October 18, 1990.
- "Use of Engineering Concepts to Enhance the Longevity of Ceramic and Metal-Ceramic Restorations," Scientific Program, 21st Annual Session, The American College of Prosthodontics, Charleston, South Carolina, November 2, 1990.
- "Advances in Dental Materials and Fixed Prosthodontics," William Beaumont Army Medical Center, Fort Bliss, El Paso, Texas, November 29-30, 1990.
- "Design and Longevity of Prosthodontic Structures," Fourth International Congress, Mexican Academy of Prosthodontics, Acapulco, September 2-4, 1990.
- "Recent Advances in Dental Ceramics," Fourth International Dental Seminar, The Nippon Dental University, Niigata, Japan, September 23, 1990.

1989

- "Recent Advances in Ceramics and Metal-Ceramics," East Coast District Dental Society and the Miami Winter Meeting, Miami, Florida, 1989.
- "Impact of High Technology on Restoration Design," 3rd International College of Prosthodontics Conference, Toronto, Canada, July 11, 1989.
- "What's New in Dental Ceramics?," Suwannee River Valley Study Club, Newberry, Florida, September 5, 1989.
- "Design of Ceramic and Metal-Ceramic Restorations," Comprehensive Dentistry Program, University of Florida, September, 1989.
- "Development of a Multidisciplinary Center for Biomaterials Research," University of Kentucky, Lexington, Kentucky, October 19, 1989.

1988

- "Establishing Criteria for Restorative Therapy," Bristol World Dental Conference, Decisions in Forward-Looking Dental Care, Bristol, England, September 7-9, 1988.
- "Criteria for Placement and Replacement of Dental Restorations," South Dade Dental Society, September 27, 1988.
- "Advances in Dental Biomaterials," Department of the Army, U.S. Army Dental Activity, Fort Gordon, Augusta, Georgia, November 3-4, 1988.

- "Biomaterials: An Irrelevant Curriculum?," Biomaterials Section/AADS, Montreal, Canada, March 8, 1988.
- "Stress Analysis and Optimized Design of Metal-Ceramic and All-Ceramic Crowns," Lunch and Learning Session of the 66th General Session of the IADR, Montreal, Canada, March 10, 1988.
- "Creep in High Temperature PFM Alloys," Scientific Session Preliminary Program for the Academy of Dental Materials, Chicago, Illinois, March 19, 1988.
- "New Developments in Fixed Prosthodontics and Dental Biomaterials," William Beaumont Army Medical Center, Fort Bliss, El Paso, Texas, May 4-5, 1988.

1987

- "Recent Developments in Dental Materials," West Coast Dental Society, Clearwater, Florida, January 22, 1987.
- "Successful Metal-Ceramic Restorations: Influence of the Dentist-Technician Interaction," The 6th International Symposium on Ceramics, Los Angeles, California, June 20, 1987.
- ADA/ISO/TC 106 Meeting, U.S. expert on Metal-Ceramic Systems, Buenos Aires, Argentina, November 2-7, 1987.

1986

- Amalgam Toxicity: Is it a Problem?," Academy 100, Gainesville, Florida, November 16, 1985.
- "The Mercury Issue: What Are the Facts?," Marion County Dental Society, Ocala, Florida, January 14, 1986.
- "Silver Fillings: Are They Safe?," Television appearance, Picture of Health, Channel 20, Gainesville, Florida, January 26, 1986.
- "Update on Metal-Ceramic Restorations," General Practice Residents Program, University of Florida, February 7, 1986.
- "Are Amalgams Safe?," Florida Academy of General Dentistry, Tampa, Florida, February 22, 1986.
- "Atypical Designs for Metal-Ceramic Restorations," Featured Clinician, Academy of Crown and Bridge Prosthodontics, Chicago, Illinois, February 15, 1986.
- "New Products for Restorative and Fixed Applications," Comprehensive Dentistry Program, University of Florida, College of Dentistry, April 19, 1986.
- "Mercury and Nickel Allergy: Legal Implications," "Selection of Metal-Ceramic Systems," and "Current Status of Ceramic Crowns," Dade County Dental Study Club, Miami, Florida, May, 1986.
- "Mercury Toxicity," Comprehensive Dentistry Program, University of Florida, July 20, 1986.
- "Evaluation of the Caridex System and Selection of Noble PFM Alloys," Central University of Venezuela, Caracas, Venezuela, October 17-18, 1986.
- "New Prosthodontic Concepts in Crown and Bridge Design," Lackland USAF Base, San Antonio, Texas, November 10, 1986.
- "Selection of Dental Materials: Can You Believe the Manufacturers' Advertisements?," Baylor College of Dentistry, Dallas, Texas, November 11, 1986.

1985

- "The Effect of Atypical Coping Design on Stress Development in PFM Crowns," The 4th International Symposium on Ceramics, Featured Speaker, Chicago, Illinois, September 22, 1985.
- "Selection, Fabrication and Evaluation of Metal-Ceramic Restorations," One-day Course General Practice Residency Program, University of Florida, April 13, 1985.
- "Current Status of Composites, Cements, Impression Materials, and Ceramic Restorations,"

Department of the Army, Fort Bliss, El Paso, Texas, April 18-19, 1985.

"Biocompatibility of Dental Alloys," University of Florida, August 25, 1985.

Television appearance, Carol Nelson Show, Amalgam Controversy, Channel 6, Orlando, Florida, August, 30, 1985.

"The Effect of Atypical Coping Design on Stress Development in PFM Crowns," The 4th International Symposium on Ceramics, Featured Speaker, Chicago, Illinois, September 22, 1985.

"Mercury Toxicity: Fact vs. Fiction," In-service Education Series, University of Florida, November 14, 1985.

1984

"Metal-Ceramic Restorations," Florida Academy of General Dentistry, 1984 State Meeting, Tampa, Florida, February 17, 1984.

"Influence of an Argon Atmosphere on the Flexure Strength of Presoldered Ni-Cr Alloys," Scientific Program, Chicago Dental Society, 119th Midwinter Meeting, Chicago, Illinois, February 21, 1984.

"An Evaluation of Traditional and New Dental Materials," Comprehensive Dentistry Program, Gainesville, Florida, March 10, 1984.

"Clinical Implications of Metal-Ceramic Adherence and Compatibility Testing," Lunch and Learning Program, 62nd General Session, International Association for Dental Research, Dallas, Texas, March 17, 1984.

"Update in Dental Materials and Techniques," Dental Auxiliary Educators' Workshop, Gainesville, Florida, July 27, 1984.

"Metal-Ceramic Systems," Dental Materials Teachers Conference, Course Content for the Eighties. W. K. Kellogg Foundation Institute, Graduate and Postgraduate Dentistry, The University of Michigan, School of Dentistry, Ann Arbor, Michigan, October 3, 1984.

1983

"Compatibility of Metal-Ceramic Systems," 1983 Scientific Session, Academy of Operative Dentistry, Chicago, Illinois, February 17-18, 1983.

"Evaluation of Metal-Ceramic Systems, Academy of Operative Dentistry," Chicago Dental Society, Chicago, Illinois, February 17, 1983.

"Effect of Mercury Exposure to Dental Patients and Office Personnel," Orange County Dental Society, Orlando, Florida, June 27, 1983.

"Silver Amalgams - Are They Safe?," Picture of Health, WUFT-TV, April, 1983 and September, 1983.

"Criteria for Minimizing the Clinical Failure of Metal-Ceramic Restorations." Presented at the symposium, The Ceramic Revelation, co-sponsored by the Loma Linda College of Dentistry and the Newport Harbor Academy of Dentistry, Newport Harbor, California, October 4, 1983.

"Metal-Porcelain Systems: Are Low Cost Alloys Worth the Risks?," Baylor College of Dentistry, Dallas, Texas, October, 14, 1983.

"What's New in Ceramic and Metal-Ceramic Restorations," Academy 100 Meeting, Gainesville, Florida, November 11, 1983.

"Evaluation of PFM and Ceramic Systems," Comprehensive Dentistry Program, Gainesville, Florida, November 19, 1983.

1982

"Current Status of Alloys for Porcelain-Metal Restorations," University of Florida College of Dentistry, March 8, 1982.

"Castability of PFM Alloys," Thomas P. Hinman Meeting, Atlanta, Georgia, March 23, 1982.

"Screening Tests for Porcelain-Metal Systems, First International Symposium on Ceramics,"

co-sponsored by Louisiana State University and Quintessence Publishing Company, April, 1982.

"Screening Tests for Porcelain-Metal Systems," The First International Symposium on Ceramics, Featured Speaker, New Orleans, Louisiana, April 24, 1982.

1981

"Alloys for PFM Restorations," Thomas P. Hinman Meeting, Atlanta, Georgia, March 22, 1981.

"Recent Developments in Restorative Dental Materials," Catawba Dental Society, Rock Hill, South Carolina, May 22, 1981.

"Selection of Crown and Bridge Casting Alloys," American Dental Association Meeting, Scientific Session, Kansas City, Missouri, October 24, 1981.

1980

"Alternatives to High Gold Alloys for Crown and Bridge Applications," Academy of Operative Dentistry, Chicago Dental Society, Chicago, Illinois, February 14-15, 1980.

"Present Status of High Copper Amalgams," Academy of Operative Dentistry, Chicago, Illinois, February 14-15, 1980.

"Are Low Gold Alloys an Acceptable Compromise?" Thomas P. Hinman Meeting, Atlanta, Georgia, March 24, 1980.

"Are High Copper Amalgams Clinically Superior?" Thomas P. Hinman Meeting, Atlanta, Georgia, March 24, 1980.

"Current Status of Metal-Ceramic Research," Kyoto Dental College, Kyoto, Japan, June 5, 1980.

Scientific Panel Member, American Dental Association Meeting, New Orleans, Louisiana, October 13, 1980.

"Evaluation of Porcelain-Metal Systems for Crown and Bridge Applications," American Dental Association Meeting, Scientific Session, New Orleans, Louisiana, October 13, 1980.

"Selection of Economy Crown and Bridge Alloys," Clarke County Dental Society, Athens, Georgia, February 19, 1980

"Alternatives to High Gold Content Alloys," Georgia Board of Dental Examiners, Augusta, Georgia, March 2, 1980.

"A Status Report on Microfilled Resins," Georgia Board of Dental Examiners, Augusta, Georgia, March 2, 1980.

"Recent Advances in Dentistry," North Augusta Exchange Club, North Augusta, South Carolina, March 25, 1980.

"A Comparative Evaluation of Premium Gold, Low Gold, and Non-Gold Alloys for Crown and Bridge Applications," Satilla Area Dental Society, Waycross, Georgia, April 12, 1980.

"An Evaluation of New Restorative Dental Materials," Satilla Area Dental Society, Waycross, Georgia, April 12, 1980.

"Nonprecious Crown and Bridge Alloys - Are They Worth The Risks?," Opelika Dental Society, Opelika, Alabama, April 24, 1980.

"Porcelain-Fused-to-Metal," Blue Grass Dental Society, Lexington, Kentucky, October 8, 1980.

"Evaluation of Porcelain-Metal Systems for Crown and Bridge Applications," featured clinician and scientific panel member, ADA Meeting, New Orleans, Louisiana, October 13, 1980.

"Metallurgical and Mechanical Properties of Noble Metal Alloys," CODE Conference, Lexington, Kentucky, November 7, 1980.

1979

"Criteria for Selection of Porcelain-Fused-to-Metal Alloys," Thomas P. Hinman Meeting, Atlanta, Georgia, March, 1979.

"What's New in Crown and Bridge Alloys?," Veteran's Administration Hospital, Augusta,

Georgia, 1979.

“Stress Analysis of Porcelain-Metal Bond Tests Used in Dental Research,” Joint Meeting on American Society of Mechanical Engineers and South Carolina Society of Professional Engineers, Aiken, South Carolina, September 20, 1979.